

COUNTY PALATINE OF LANCASTER.

REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE YEAR 1927,

WITH STATISTICAL INFORMATION FROM REPORTS OF
DISTRICT MEDICAL OFFICERS OF HEALTH.

(Presented to the County Council, November 1st, 1928.)



C. Tintling & Co. Ltd., Liverpool, London and Prescott.
1928.

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REPORT

OF THE

MEDICAL OFFICER OF HEALTH

For the Year ended December 31st, 1927.

To the County Council of the County Palatine of Lancaster.

I have the honour to submit for your consideration the Thirty-ninth Annual Report on the health, sanitary condition and circumstances of the Administrative County of Lancaster for the year ended 31st December, 1927.

The Ministry of Health Circular 834, dated the 15th December, 1927, directs that the reports of Medical Officers of Health for the year 1927 be compiled on similar lines to those of 1926. The next full Survey Report will be for the year 1930.

With a view to assisting local Medical Officers of Health in the preparation of their reports in accordance with the Ministry's instructions, and to ensure uniformity, a Summary Form was again prepared by the County Public Health Department embodying all the special requirements; from these Summaries, as supplied by the local Medical Officers, much of the information given in the County Report is extracted.

During the year under report, preventive medicine developed in many directions, and further demands were made by Acts of Parliament and by Orders, Regulations and Circulars issued by the Ministry of Health, upon the energies and activities of the staffs of both County and Local Public Health Departments.

STATISTICS AND SOCIAL CONDITIONS OF THE COUNTY.

Area of Administrative County.—The area of the Administrative County on the 31st December, 1927, was 1,054,442 statute acres. No change of boundary affecting the County area took place during the year, but there were several alterations affecting local areas, viz.: on the 1st April, 1927, the Borough of Ashton-under-Lyne was extended by the inclusion of the urban district of Hurst, which had an area of 637 acres and a population at the 1921 census of 8,074. On the same date, under Confirmation Orders, a new civil parish of Haverthwaite was formed, comprising portions of the parishes of Colton and Upper Holker; also a small portion of Upper Holker was transferred to the parish of Lower Allithwaite. By Orders of the County Council, dated 5th May, 1927, the Thornton Urban district was re-named Thornton Cleveleys, and Billinge was altered to Billinge-and-Winstanley.

Population (Census 1921, and Estimated 1927).—The estimated population of the Administrative County, as calculated by the Registrar-General, for the year 1927, was as under:—

For calculating the <i>birth-rate</i>	...	...	...	...	1,801,500
Urban districts	1,542,800	;	Rural districts	258,700.	
For calculating the <i>death-rate</i>	...	...	...	...	1,800,300
Urban districts	1,541,800	;	Rural districts	258,500.	

The estimate of population, the Registrar-General states, is derived from the 1921 Census population after allowance for the births, deaths, and migration which occurred between the census date and the 30th June, 1927. The official estimated population has been found in a few instances to differ considerably from the local estimates. On this point the Registrar-General states, "in the absence of definite information regarding migration between localities, the allowances made for this element of the movement is necessarily an approximate one. The method adopted has been applied impartially to all areas of the country, and it is believed that in the majority of areas the resulting populations may be accepted as sufficiently accurate for the purposes they are intended to serve."

The population of the Administrative County as at present constituted, at the census of 1921 was 1,745,930, the estimate of the year under report showing an increase of 55,570. During the seven years (1921—1927) which have elapsed since the census, the excess of births over deaths was 55,246.

The rate of increase of population in the County since the census is much greater in the rural districts than in the urban districts, the respective percentages being 6·7 and 2·6.

Table 3, pages 14 to 19, shows the census enumeration of each County District, and also the estimated population for the year 1927.

The following table gives the area, population, persons per acre, and acres per person of the Administrative County on the 31st December, 1927, distributed between the non-county boroughs, urban and rural districts :—

	Area in Acres.	Population.			Persons per Acre.	Acres per Person.
		Census, 1921.	Estimate of Population, 1927.			
			For Birth-rate.	For Death-rate.	Calculated on estimated population.	
Municipal Boroughs (19)...	87,063	588,998	588,560	588,330	6·75	0·14
Urban Districts (82).....	254,821	914,675	954,240	953,470	3·74	0·26
Rural Districts (19).....	712,558	242,257	258,700	258,500	0·36	2·75
Administrative County	1,054,442	1,745,930	1,801,500	1,800,300	1·70	0·58

Number of inhabited houses (1921), and number of families or separate occupiers (1921).—The number of private families and dwellings in the Administrative County as constituted at the date of the Census, 1921, is given in the table below :—

	POPULATION.								
	Census 1921.								
	Persons.	Males.	Females.	Persons per Acre.	Private Families and Dwellings.				
					No. of Private Families.	Population in Private Families.	Structurally Separate Dwellings Occupied.	Rooms Occupied.	Rooms per Person.
Urban Districts	1503673	711997	791676	4·3	347799	1456504	335962	1554513	1·03
Rural Districts	242565	117441	125124	0·3	53938	229817	52785	268964	1·17
Administrative County	1746238	829488	916800	1·7	401737	1686321	388747	1823477	1·08

Rateable value and sum represented by a penny rate.—The rateable value of the Administrative County Area in 1927, according to the figures given by the local Medical Officers of Health, was £11,625,086, and a penny rate on the assessable value would produce £43,144.

Social conditions, including the chief occupations of the inhabitants, and the influence of any particular occupation on public health.—The following table shows the occupations by sex of persons aged 12 years and over at the date of the Census :—

OCCUPATION.	Administrative County.		Urban Districts.		Rural Districts.	
	Males.	Females.	Males.	Females.	Males.	Females.
Fishermen	1507	38	1340	35	167	3
Agricultural Occupations	38305	3794	14932	1427	23373	2367
Mining and Quarrying Occupations ...	75053	1892	67688	1754	7365	138
Workers in the Treatment of Non-Metalliferous Mine & Quarry products	697	194	612	188	85	6
Makers of Bricks, Pottery, and Glass ...	2497	373	1985	302	512	71
Workers in Chemical Processes ; Makers of Paints, Oils, &c.	5184	730	4752	619	432	111
Metal Workers (not Electro Plate or Precious Metals)	63927	1830	57768	1702	6159	128
Workers in Precious Metals and Electro Plate	177	47	158	41	19	6
Electrical Apparatus Makers and Fitters (not elsewhere enumerated) and Electricians	6897	1169	6128	962	769	207
Makers of Watches, Clocks and Scientific Instruments	682	90	605	61	77	29
Workers in Skins and Leather, and makers of Leather and Leather Substitute Goods (not Boots or Shoes) ...	2392	733	2030	708	362	25
Textile Workers	101514	161221	93651	147720	7863	13501
Makers of Textile Goods and Articles of Dress	10486	17198	9743	15633	743	1565
Makers of Foods, Drinks, and Tobacco	6038	4980	5472	4539	566	441
Workers in Wood and Furniture ...	19283	592	16508	519	2775	73
Makers of and Workers in Paper ; Printers, Bookbinders, Photographers, &c.	6471	3091	5832	2818	639	273
Builders, Bricklayers, Stone and Slate-workers ; Contractors	19639	111	16240	101	3399	10
Painters and Decorators (not Pottery)	6139	114	5564	107	575	7
Workers in other Materials	3312	1525	2841	1390	471	135
Workers in Mixed or Undefined Materials (not elsewhere enumerated) ...	2753	275	2447	265	306	10
Persons employed in Gas, Water, and Electricity Undertakings (not elsewhere enumerated)	2075	18	1905	18	170	...
Persons employed in Transport and Communication	43964	1920	38907	1701	5057	219
Commercial, Finance, and Insurance Occupations (excluding Clerks)	42923	19396	38625	17716	4298	1680
Persons employed in Public Administration and Defence (excluding Professional Men and Typists)	9589	1778	8096	1451	1493	327
Professional Occupations (excluding Clerical Staff)	11153	12934	9206	10671	1947	2263
Persons employed in Entertainments and Sport	1993	716	1807	682	186	84
Persons engaged in Personal Service (including Institutions, Clubs, Hotels, &c.)	10819	43854	9408	35549	1411	8305
Clerks and Draughtsmen (not Civil Service or Local Authorities) ; Typists	23990	13135	21437	11737	2553	1398
Warehousemen, Storekeepers, and Packers	14559	5350	13588	4872	971	478
Stationary Engine Drivers, Dynamo, and Motor Attendants	9319	...	8317	...	1002	...
Other and Undefined Workers ...	41186	1499	36525	1303	4661	196
Retired or not Gainfully Occupied ...	66604	438428	54159	371620	12445	66808

Under the head of " Social Conditions, etc.," Medical Officers of Health in their reports refer mainly to the nature of the chief occupations of the inhabitants. A few comment on the influence of particular occupations on the public health :—

Chorley (B).—In reporting on the conditions under which many inhabitants work, reference is made to the dampness of the weaving sheds as likely to cause rheumatism, but this, it is stated, does not exist to any very great extent.

Clayton-le-Moors.—As to occupational effects upon health, those of cotton weaving and mining may be classed the most unfavourable in producing lung affections.

Irlam.—Complaints were made of alleged lead poisoning among employees at a steel and iron works. After reference of the matter to the Factory Department, the cause of the trouble was removed.

Littleborough.—A large number of persons engaged in the manufacture of artificial silk have been affected with varying degrees of eye trouble, but, the Medical Officer of Health states, owing to lack of data and the difficulty of obtaining statistics, it is impossible to say whether repeated attacks will result in permanent injury to the eyes. Many complaints have been received in regard to obnoxious smells arising from this industry.

Padiham.—Unemployment has reacted on the health of young people, owing to the lack of proper nourishment.

Westhoughton.—Unemployment, with consequent poverty, is still very prevalent, and this makes for ill concerning the public health.

Whitworth.—Bronchitis in card-room operatives and among quarrymen, seems very prevalent in the winter time. The wearing of dust masks is advocated. It is stated some Approved Societies provide them on the recommendation of a panel doctor.

VITAL STATISTICS.

Summary of County Statistics, 1889-1927.—The following tabular statement compares the County birth and death rates for the year 1927 with the previous year, and with the thirty-eight years (1889—1926), grouped in quinquennial periods:—

					PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
					Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<i>Mean of 5 years—</i>								
<i>1889–1896</i> (8 years)					30·14	18·59	1·33	157
<i>1897–1901</i>	...	...	...	...	27·30	17·02	1·09	167
<i>1902–1906</i>	...	...	...	...	25·84	14·99	0·88	141
<i>1907–1911</i>	...	...	...	...	23·55	14·11	0·87	126
<i>1912–1916</i>	...	...	...	...	20·90	14·27	0·90	111
<i>1917–1921</i>	...	...	...	...	18·53	14·06	0·87	93
<i>1922–1926</i>	...	...	...	...	16·68	12·54	0·69	81
<i>Year—</i>								
1926	...	...	...	...	15·61	11·99	0·64	80
1927	...	...	...	...	14·57	12·72	0·61	73
<i>Increase or decrease in 1927 on—</i>								
<i>Mean of 5 years, 1922–1926</i>				...	−2·11	+0·18	−0·08	−8
<i>Previous year</i>		...	...	...	−1·04	+0·73	−0·03	−7

Births and Birth-rates.—The births registered in or belonging to the Administrative County during the year ended 31st December, 1927, numbered 26,263, compared with 27,944 in the previous year—a decrease of 1,681. In 1925 the births numbered 28,394, or 2,131 more than in the year under report.

The sex of the children born in 1927 is shown below:—

		Males.		Females.		Total.
Urban Districts	...	11410	...	11105	...	22515
Rural Districts	...	1915	...	1833	...	3748
Administrative County		<u>13325</u>		<u>12938</u>		<u>26263</u>

The number of male births again exceeded those of females, the excess being equal to 1·47 per cent.; last year this percentage was 1·65, and 0·45 per cent. in 1925.

The births in the County area in 1927 exceeded the deaths by 3,347. In the year 1926 there were 6,491 more births than deaths; thirty-eight years ago the excess was 18,109.

The following table shows the County, urban, and rural birth-rates for the year 1927, also the rates for each year in the preceding decennial period. For comparative purposes the birth-rates for the whole country are also given :—

	Birth-rate per 1,000 of the Estimated Population.										
	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.	1926.	1927.
Urban Districts ...	16·27	16·09	16·58	22·30	21·06	18·28	17·42	16·62	15·99	15·66	14·59
Rural Districts ...	16·08	16·06	16·88	22·98	18·94	17·04	16·48	16·05	15·23	15·29	14·48
Administrative County	16·25	16·08	16·62	22·97	20·76	18·11	17·29	16·54	15·89	15·61	14·57
England and Wales	17·8	17·7	18·5	25·4	22·4	20·6	19·7	18·8	18·3	17·8	16·7

Table 1, page 12, shows the County and the urban and rural district birth-rates since 1889 (the first year County statistics were available) and also the five year averages.

The steady decline in the birth-rate continued, and the County rate for the year 1927 was the lowest on record, 1·04 per 1,000 of the population below last year's rate, 2·11 per 1,000 below the average of the preceding five years, and 2·2 below the rate for 1927 for the whole of England and Wales. Since 1920, the first normal year after the war period, the County birth-rate has fallen 8·40 per 1,000, representing over 15,000 births per annum, whilst since the year 1891 the fall represents 17·36 per 1,000, or more than 31,000 births each year.

District birth-rates over 20 per 1,000 are now seldom encountered, only one County district reaching that figure in the year under report. Reference to the 1891 report shows that in the whole County in that year, only 7 of the 133 districts had a birth-rate below 20 per 1,000 of the population; several districts then had rates of 42, 43, and 44 per 1,000.

The highest rates recorded in 1927 were: Widnes (B), 21·7; Sefton (R), 19·9; Aspull and Fleetwood, each 19·6; Ince-in-Makerfield, 19·4; Haydock, 19·2; Kirkham, 18·8; Irlam, 18·2; and Waterloo-with-Seaforth, 18·0.

Low birth-rates were reported from Clitheroe (R), 8·2; Grange-over-Sands, 8·4; Fulwood, 8·5; Brierfield, 8·8; Little Crosby, 9·1; Huyton-with-Roby, 9·7; Lytham Saint Anne's (B), 10·0; Worsley, 10·5; and Morecambe (B), 10·9.

In 39 County districts in 1927, the birth-rate was lower than the death-rate.

The number of births in each borough, urban and rural district, and the local birth-rates, are given in Table 3, pages 14 to 19.

ILLEGITIMATE BIRTHS.—The births of illegitimate children registered in 1927 numbered 1,041, or 46 more than in 1926. The percentage to total births was 3·96, compared with an average of 3·64 for the five preceding years.

Deaths and Death-rates.—The total number of deaths registered in the Administrative County during the calendar year 1927, after correction as regards inward and outward transfers, was 22,916, compared with 21,453 deaths in the year 1926—an increase of 1,463.

The sex distribution of the persons dying in 1927 is shown below :—

	Males.	Females.	Total.
Urban Districts ...	9914	9914	19828
Rural Districts ...	1553	1535	3088
Administrative County ...	11467	11449	22916

ADMINISTRATIVE COUNTY OF LANCASTER.

TABLE 1—SHOWING COUNTY BIRTH AND DEATH RATES FOR YEARS 1889—1927

YEAR.	BIRTH-RATE.			DEATH-RATE.			INFANT MORTALITY.		
	County.	Urban Districts.	Rural Districts.	County.	Urban Districts.	Rural Districts.	County.	Urban Districts.	Rural Districts.
1889	30.5	31.8	29.6	17.5	18.4	16.6	160	161	125
1890	29.3	29.7	28.1	18.5	18.9	16.6	152	158	126
1891	31.93	32.45	29.48	21.09	21.70	18.19	157	160	139
1892	30.70	31.11	28.01	19.00	19.34	17.31	150	155	124
1893	30.95	31.35	28.94	19.97	20.37	17.94	177	183	145
1894	29.19	29.49	27.70	16.16	16.42	14.87	134	138	109
Average 6 years, 1889-1894	30.42	30.98	28.63	18.70	19.18	16.91	155	159	128
1895	29.82	30.23	27.57	19.16	19.63	16.57	171	178	127
1896	28.73	29.11	26.62	17.38	17.76	15.25	155	161	121
1897	28.45	28.65	27.29	17.48	17.82	15.55	169	174	138
1898	27.62	27.89	25.80	16.58	16.80	15.09	168	173	130
1899	27.09	27.31	25.53	17.60	17.88	15.65	175	181	134
Average 5 years, 1895-1899	28.34	28.63	26.56	17.64	17.97	15.62	167	173	130
1900	26.80	26.96	25.72	17.19	17.46	15.26	162	167	123
1901	26.57	26.78	25.13	16.28	16.58	14.21	161	167	118
1902	26.85	26.95	26.14	15.26	15.43	14.08	139	143	116
1903	26.77	27.04	24.96	15.22	15.44	13.69	140	143	114
1904	25.56	25.66	24.90	15.54	15.78	13.81	157	162	124
Average 5 years, 1900-1904	26.51	26.67	25.37	15.89	16.13	14.21	151	156	119
1905	25.06	25.22	23.99	14.32	14.52	12.99	132	137	101
1906	24.99	25.11	24.22	14.62	14.81	13.33	139	143	109
1907	24.23	24.47	22.60	14.40	14.59	13.11	125	129	96
1908	24.86	25.05	23.60	14.45	14.61	13.31	131	136	97
1909	23.57	23.67	22.91	13.96	14.08	13.11	115	119	87
Average 5 years, 1905-1909	24.54	24.70	23.46	14.35	14.52	13.17	128	132	98
1910	22.48	22.47	22.52	12.73	12.83	12.09	117	121	93
1911	22.64	22.88	21.15	15.05	15.33	13.25	144	148	111
1912	22.00	22.09	21.42	13.61	13.76	12.60	104	106	89
1913	22.20	22.41	20.86	14.20	14.39	13.00	124	128	100
1914	22.02	22.19	20.95	13.95	14.17	12.53	112	115	96
Average 5 years, 1910-1914	22.26	22.40	21.38	13.90	14.09	12.69	120	123	97
1915	19.78	19.91	18.95	15.32	15.60	13.57	119	123	94
1916	18.54	18.54	18.59	14.31	14.47	13.32	99	101	82
1917	16.25	16.27	16.08	13.98	14.05	13.56	96	96	94
1918	16.08	16.09	16.06	17.26	17.40	16.41	100	101	90
1919	16.62	16.58	16.88	14.06	14.01	14.40	93	94	88
Average 5 years, 1915-1919	17.45	17.47	17.31	14.98	15.10	14.25	101	103	89
1920	22.97	22.30	22.98	12.74	12.83	12.19	91	95	67
1921	20.76	21.06	18.94	12.27	12.31	11.97	88	90	76
1922	18.11	18.28	17.04	13.23	13.43	11.99	85	87	75
1923	17.29	17.42	16.48	12.30	12.44	11.45	80	82	67
1924	16.54	16.62	16.05	12.53	12.66	11.77	81	84	68
Average 5 years, 1920-1924	19.13	19.13	18.29	12.61	12.73	11.87	85	87	70
1925	15.89	15.99	15.23	12.66	12.79	11.86	82	83	71
1926	15.61	15.66	15.29	11.99	12.21	10.69	80	82	71
1927	14.57	14.59	14.48	12.72	12.86	11.94	73	74	68

ADMINISTRATIVE COUNTY OF LANCASTER.

TABLE 2.—CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING THE YEAR ENDED 31st DECEMBER, 1927.

CAUSES OF DEATH.	Col.	ADMINIS- TRATIVE COUNTY. TOTAL DEATHS.	Sex.	AGGREGATE OF URBAN DISTRICTS.										AGGREGATE OF RURAL DISTRICTS.										Col.
				YEARS.										YEARS.										
				All Ages.	0—	1—	2—	5—	15—	25—	45—	65—	75—	All Ages.	0—	1—	2—	5—	15—	25—	45—	65—	75—	
ALL CAUSES		22916	M. F.	9914 9914	940 727	220 214	250 195	280 241	422 362	1110 1127	3012 2688	2273 2345	1407 2015	1553 1535	141 115	21 24	28 26	44 55	69 44	153 154	422 342	337 362	338 413	
Enteric fever	1	26	M. F.	11 11	...	...	...	2 2	3 2	4 2	2 4	...	...	1 3	...	...	...	...	...	...	3 1	...	...	1
Smallpox	2	1	M. F.	...	...	...	...	...	...	...	...	...	...	1 ...	...	...	...	...	...	...	...	1 ...	...	2
Measles	3	177	M. F.	90 72	16 18	31 27	35 21	8 6	...	...	...	...	...	7 8	...	1 1	4 5	2 1	...	...	...	...	...	3
Scarlet fever	4	23	M. F.	8 13	...	...	5 3	2 4	...	1 3	...	...	...	1 1	...	1 ...	...	...	...	...	...	...	...	4
Whooping cough	5	109	M. F.	50 52	20 23	12 15	14 9	4 5	...	...	...	...	...	3 4	2 1	...	1 1	...	...	...	...	...	...	5
Diphtheria	6	109	M. F.	54 44	3 ...	3 4	19 15	27 20	2 2	...	...	...	...	4 7	...	1 ...	2 2	1 5	...	...	...	...	...	6
Influenza	7	1264	M. F.	554 510	16 11	13 6	15 9	12 13	30 13	97 90	208 162	97 124	66 82	98 102	...	1 2	1 ...	2 2	3 2	20 21	26 21	27 25	18 26	7
Encephalitis lethargica ...	8	89	M. F.	42 35	...	1 1	1 ...	2 3	11 6	13 8	11 14	2 3	1 ...	7 5	...	...	...	...	...	2 1	3 1	2 2	...	8
Meningococcal meningitis ...	9	15	M. F.	5 7	1 1	...	...	2 2	...	1 2	1 ...	...	...	1 2	...	...	...	1 ...	...	...	...	...	...	9
Tuberculosis of respiratory system	10	1105	M. F.	522 459	1 ...	...	3 2	8 21	94 138	226 205	172 79	17 9	1 3	66 58	...	...	...	3 3	7 14	26 25	23 12	5 4	2 ...	10
Other tuberculous diseases ...	11	296	M. F.	133 130	9 10	16 16	21 13	28 15	24 22	19 31	12 18	2 5	2 ...	14 19	...	3 2	3 1	3 8	...	1 1	3 5	...	1 ...	11
Cancer, malignant disease ...	12	2411	M. F.	967 1124	...	1 ...	1 ...	...	9 4	59 101	499 559	317 309	81 150	151 169	...	...	...	...	1 ...	7 12	70 75	55 49	18 20	12
Rheumatic fever	13	93	M. F.	40 41	...	1 ...	3 ...	9 14	9 8	5 12	12 5	1 2	...	5 7	...	...	...	...	3 2	1 ...	1 2	...	...	13
Diabetes	14	276	M. F.	99 135	...	...	1 ...	...	5 4	11 11	37 56	40 46	5 17	22 20	...	...	...	2 1	1 1	3 2	7 10	7 6	2 ...	14
Cerebral hæmorrhage, &c. ...	15	1404	M. F.	509 702	...	...	1 ...	1 ...	...	8 14	173 222	202 271	124 193	85 108	...	...	...	1 ...	1 ...	...	22 24	33 43	28 40	15
Heart disease	16	3441	M. F.	1348 1610	...	...	3 1	10 17	22 32	105 152	475 520	472 519	261 368	235 248	...	...	...	5 1	4 4	10 17	67 58	73 79	76 89	16
Arterio-sclerosis	17	1169	M. F.	589 442	...	...	...	...	...	8 ...	154 76	251 164	176 202	76 62	...	...	...	...	...	1 10	19 16	29 36	27 36	17
Bronchitis	18	1724	M. F.	733 786	51 54	11 15	6 7	3 4	3 4	36 23	176 163	251 238	196 278	93 112	8 5	1 3	1 ...	...	...	6 3	13 18	23 30	41 51	18
Pneumonia (all forms) ...	19	1626	M. F.	806 617	149 93	75 82	58 55	43 26	37 17	133 81	183 118	96 92	32 53	117 86	13 17	6 11	4 5	6 5	12 2	23 5	29 15	8 15	16 11	19
Other respiratory diseases ...	20	267	M. F.	129 104	4 4	3 2	10 3	8 5	7 2	18 11	47 33	19 22	13 22	18 16	2 ...	...	...	1 ...	...	2 1	6 3	4 6	3 5	20
Ulcer of stomach or duodenum	21	165	M. F.	104 38	1 1	...	...	...	1 ...	33 9	46 16	19 9	4 3	15 8	...	...	...	...	...	5 1	8 4	1 3	1 ...	21
Diarrhœa, &c.	22	267	M. F.	132 110	80 58	14 7	4 10	4 3	5 ...	5 5	9 5	3 6	8 16	14 11	8 4	2 1	...	...	...	...	1 1	1 2	2 1	22
Appendicitis and typhlitis ...	23	142	M. F.	67 47	...	...	1 2	10 8	15 3	19 17	16 15	5 2	1 ...	13 15	...	...	1 ...	2 2	5 7	1 2	4 3	...	...	23
Cirrhosis of liver	24	72	M. F.	41 23	...	...	...	...	...	2 3	25 12	13 5	1 3	8 ...	...	...	...	...	2 ...	4 ...	2 ...	...	...	24
Acute and chronic nephritis ...	25	675	M. F.	295 302	...	2 1	1 3	5 1	12 11	29 46	135 119	77 86	34 34	45 33	...	...	1 1	1 ...	3 1	6 7	21 10	5 10	8 4	25
Puerperal sepsis	26	40	M. F.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26
Other accidents and diseases of pregnancy and parturition	27	90	M. F.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 ...	4 ...	...	...	...	27
Congenital debility and mal- formation, premature birth	28	915	M. F.	440 333	433 328	2 1	...	3 ...	...	1 3	...	1 ...	...	77 65	76 65	1 ...	...	...	...	...	...	...	...	28
Suicide	29	258	M. F.	164 60	...	...	...	...	11 7	48 13	79 33	19 6	7 1	23 11	...	...	...	...	...	8 4	14 3	...	1 ...	29
Other deaths from violence ...	30	739	M. F.	432 197	7 11	13 4	26 13	39 15	69 14	111 19	113 44	31 37	23 40	77 33	2 ...	...	2 3	9 4	17 ...	14 6	17 8	7 5	9 6	30
Other defined diseases	31	3841	M. F.	1503 1767	149 113	20 26	22 27	50 54	51 51	116 166	392 396	332 385	371 549	268 303	30 16	4 4	7 2	6 12	10 8	15 26	58 61	53 59	85 115	31
Causes ill-defined or unknown	32	87	M. F.	47 27	...	2 2	...	...	2 ...	2 4	35 14	6 4	...	8 5	...	...	1 ...	...	...	...	5 2	1 3	...	32

The County deaths in 1927 at various age periods are given below :—

Under 1 Year.	1 and under 2.	2 and under 5.	5 and under 15.	15 and under 25.	25 and under 45.	45 and under 65.	65 and under 75.	75 and upwards.	Total.
1923	479	499	620	897	2544	6464	5317	4173	22916

Comparison with last year's figures shows, as previously stated, an increase in the total deaths of 1,463 ; there was a diminution of 107 in the deaths of children under 2 years of age, an increase of 611 among persons aged 45-65, and 1,168 among persons 65 years and upwards.

Table 2, here inserted, is a classified statement of the causes of death in 1927, distributed in age groups, and distinguishing the sexes, for the aggregate urban and rural districts.

COUNTY DEATH-RATES.—The County death-rate for 1927, viz., 12·72 per 1,000 of the population, is slightly in excess of the rates for each of the four preceding years, and is 0·4 above the 1927 rate for England and Wales.

The table below gives the death-rates of the County from 1917 to 1927, distinguishing the urban and rural rates, and also gives the rates for England and Wales :—

	Death-rate per 1,000 of the Estimated Population.										
	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.	1926.	1927.
Urban Districts...	14·05	17·40	14·01	12·83	12·31	13·43	12·44	12·66	12·79	12·21	12·86
Rural Districts ...	13·56	16·41	14·40	12·19	11·97	11·99	11·45	11·77	11·86	10·69	11·94
Administrative County.....	13·98	17·26	14·06	12·74	12·27	13·23	12·30	12·53	12·66	11·99	12·72
England & Wales	14·4	17·6	13·8	12·4	12·1	12·9	11·6	12·2	12·2	11·6	12·3

Table 1, page 12, shows the County urban and rural death-rates for each year since 1889, and also the quinquennial averages.

The highest district death-rates in 1927 were recorded in Bacup (B), 18·4 ; Croston and Whitworth, each 17·4 ; Heysham, 17·2 ; Ulverston and Wardle, each, 16·3 ; Dalton-in-Furness, 16·2 ; and Padiham, 16·1. In comparatively small districts, rates are liable to fluctuate in marked fashion, but the following districts have the highest average death-rates for the past five years : Littleborough, 15·6 ; Poulton-le-Fylde, 15·5 ; Heysham, 15·4 ; Bacup (B), Heywood (B), and Whitworth, each 15·3 ; and Croston and Kirkham, each 15·1.

The following districts had the lowest death-rates in 1927 :—Rainford, 8·0 ; Whiston (R), 8·4 ; Formby, 8·6 ; Golborne, 8·7 ; Billinge-and-Winstanley, 9·0 ; Little Crosby, 9·1 ; and Clitheroe (R), 9·4. Covering a period of five years the following low rates were recorded :—Little Crosby, 6·6 ; Irlam, 8·8 ; Huyton-with-Roby and Prestwich, each, 9·4 ; Formby and Whiston (R), each, 9·5 ; and Withnell, 9·6.

Details of the deaths in the various sanitary areas, classified under certain headings are given in Tables 3 and 4, pages 14 to 24, and the mortality rates of each district in 1927 are compared on pages 163 to 178, with the year 1926, and with the averages of the preceding five years.

ADMINISTRATIVE COUNTY OF LANCASTER.

TABLE 3—AREA, POPULATION, NO. OF INHABITED HOUSES, &c., IN EACH DISTRICT, TOGETHER WITH THE NUMBERS OF BIRTHS AND DEATHS REGISTERED DURING 1927.
(NOTE.—For Causes of Death, see Table 4, p. 20.)

URBAN DISTRICTS.	Area in Statute Acres.	POPULATION AT ALL AGES.		No. of inhabited houses, Census, 1921.	No. of families or separate occupiers, Census, 1921.	BIRTHS.			DEATHS.			INFANT MORTALITY.			Tuber- culosis of Respiratory System. Death Rate per 1,000.			
		Census, 1921.	Estimate, 1927.			Number Registered.			Birth Rate per 1,000	No. of Illegitimate Births.	Number Registered.			Death Rate per 1,000		Number of Deaths under One Year.	Mortality per 1,000 Registered Births.	Number of Deaths of Illegitimate Children.
						M.	F.	Total.			M.	F.	Total.					
Abram	1984	6853	6631	1279	1507	53	51	104	15.6	3	90	9	86	1	0.60			
Accrington (B)	3427	43595	43080	10989	11226	281	291	572	13.2	24	629	35	61	2	0.53			
Adlington	1062	4390	4428	953	953	34	21	55	12.4	3	57	4	72	...	0.45			
Ashton-in-Makerfield	6251	22475	24020	4024	4876	198	155	353	14.3	12	253	27	76	1	0.48			
*Ashton-under-Lyne (B)... ..	1982	51409	50850	12253	12421	367	365	732	14.3	36	672	66	90	11	0.74			
Aspull	1906	7851	7544	1604	1795	88	60	148	19.6	6	113	19	128	1	0.79			
Atherton	2264	19856	20370	4009	4024	146	166	312	15.3	8	217	15	48	2	0.73			
Audenshaw	1241	7876	8338	1856	1899	67	58	125	14.9	7	94	11	88	...	0.11			
Bacup (B)	6121	21263	20500	5655	5669	166	145	311	15.1	18	379	29	93	2	0.73			
Barrowford	1387	5626	5659	1520	1546	30	40	70	12.3	1	68	4	57	...	0.35			
Billinge-and-Winstanley	4596	5168	5312	955	1006	35	35	70	13.1	4	48	5	71	...	0.37			
Blackrod	2392	3867	3915	852	861	28	33	61	15.5	1	53	5	81	...	Nil.			
Brierfield	807	8341	8281	2074	2091	40	33	73	8.8	2	120	3	41	...	0.84			
Carnforth	1504	3249	3221	740	767	36	13	49	15.2	6	33	2	40	...	0.93			
Chadderton	3082	28721	27380	6595	6662	207	224	431	15.7	24	383	40	92	2	0.84			
Chorley (B)	3614	30581	31160	6944	6973	252	262	514	16.4	23	397	42	81	...	0.48			
Church	528	6746	6647	1607	1642	40	44	84	12.6	2	90	7	83	1	0.90			
Clayton-le-Moors	1060	8579	8399	2014	2033	48	52	100	11.9	4	130	8	80	1	0.35			
Clitheroe (B)	2386	12202	11960	2997	3066	73	81	154	12.8	3	188	6	38	...	0.83			
Colne (B)	5062	24752	24960	6311	6401	146	152	298	11.9	19	372	34	114	5	0.72			
Crompton	2865	14917	14890	3567	3605	112	111	223	14.9	15	206	13	58	3	0.33			

URBAN DISTRICTS.	Area in Statute Acres.	POPULATION AT ALL AGES.		No. of inhabited houses, Census, 1921.	No. of families or separate occupiers, Census, 1921.	BIRTHS.				DEATHS.				INFANT MORTALITY.			Tuber- culosis of Respiratory System Death Rate per 1,000.	
		Census, 1921.	Estimate, 1927.			Number Registered.			Birth Rate per 1,000	No. of Illegitimate Births.	Number Registered.			Death Rate per 1,000	Number of Deaths under One Year.	Mortality per 1,000 Registered Births.		Number of Deaths of Illegiti- mate Children.
						Number Registered.					Number Registered.							
						M.	F.	Total.			M.	F.	Total.					
Croston ...	2352	1971	1948	475	494	13	17	30	15.4	...	21	13	34	17.4	3	100	...	0.51
Dalton-in-Furness ...	7994	12302	11030	2684	2909	83	87	170	15.4	7	87	92	179	16.2	10	58	1	1.54
Darwen (B) ...	5959	37906	38630	9918	10145	231	231	462	11.9	9	266	314	580	15.0	32	69	...	0.33
Denton ...	2594	17620	17010	4304	4344	117	95	212	12.4	8	89	106	195	11.4	19	89	1	0.64
Droylsden ...	1009	13878	13800	3110	3158	114	102	216	15.6	6	80	94	174	12.6	18	83	1	0.36
Eccles (B) ...	2057	44242	45390	9783	10043	353	356	709	15.6	21	294	283	577	12.7	43	60	4	0.92
Failsworth ...	1072	16973	16640	3719	3914	110	120	230	13.8	11	89	97	186	11.1	18	78	3	0.72
Farnworth ...	1504	27894	29450	6118	6186	242	242	484	16.4	18	201	170	371	12.5	38	78	6	0.74
Fleetwood ...	2565	19438	23090	3248	3894	240	214	454	19.6	17	144	119	263	11.3	50	110	4	0.86
Formby ...	5613	6318	7419	1251	1327	72	51	123	16.5	8	37	27	64	8.6	5	40	...	0.40
Fulwood ...	2116	6595	*7042 †6582	1067	1132	27	33	60	8.5	4	39	40	79	12.0	6	100	1	0.30
Golborne ...	1679	7183	7512	1411	1555	62	71	133	17.7	8	40	26	66	8.7	7	52	...	0.13
Grange-over-Sands ...	1883	2920	2242	448	457	9	10	19	8.4	...	10	22	32	14.2	...	Nil.	...	0.89
Great Crosby ...	1867	13721	15410	2803	2957	104	97	201	13.0	9	75	78	153	9.9	8	39	2	0.45
Great Harwood ...	2868	13605	13700	3337	3364	84	69	153	11.1	3	78	86	164	11.9	14	91	...	0.51
Haslingden (B) ...	8203	17486	17120	4574	4597	107	102	209	12.2	10	137	122	259	15.1	16	76	...	0.29
Haydock ...	2411	10330	11400	1796	1839	108	112	220	19.2	8	79	59	138	12.1	25	113	1	0.17
Heysham ...	1974	5027	5743	881	906	37	34	71	12.3	4	52	47	99	17.2	4	56	...	0.52
Heywood (B) ...	3658	26693	25550	6692	6707	194	206	400	15.6	25	188	189	377	14.7	25	62	2	0.54
Hindley ...	2612	23563	24840	4852	5458	192	195	387	15.5	7	127	150	277	11.1	25	64	1	0.52
Horwich ...	3257	15621	16440	3556	3588	116	120	236	14.3	7	112	111	223	13.5	15	63	...	1.15
Huyton-with-Roby ...	3053	5172	5255	1012	1630	26	25	51	9.7	1	33	33	66	12.5	9	176	3	0.38

* Population for birth-rate.

† Population for death-rate.

TABLE 3—continued.

URBAN DISTRICTS.	Area in Statute Acres.	POPULATION AT ALL AGES.		No. of inhabited houses, Census, 1921.	No. of families or separate occupiers, Census, 1921.	BIRTHS.			DEATHS.			INFANT MORTALITY.			Tuber- culosis of Respiratory System. Death Rate per 1,000.			
		Census, 1921.	Estimate, 1927.			Number Registered.			Birth Rate per 1,000	No. of Illegitimate Births.	Number Registered.			Death Rate per 1,000		Number of Deaths under One Year.	Mortality per 1,000 Registered Births.	Number of Deaths of Illegiti- mate Children.
						M.	F.	Total.			M.	F.	Total.					
Ince-in-Makerfield	...	22855	24020	4314	4876	236	230	466	19.4	17	167	144	311	12.9	49	105	...	0.99
Irlam	...	9471	11790	1912	1954	110	105	215	18.2	11	65	52	117	9.9	21	97	2	0.84
Kearsley	...	9610	10460	2201	2217	60	75	135	12.9	2	59	56	115	10.9	9	66	...	0.76
Kirkham	...	3815	3974	861	865	38	37	75	18.8	6	26	32	58	14.5	7	93	1	1.00
Lancaster (B)	...	40212	*41160 †40930	8353	8628	343	306	649	15.7	36	286	274	569	13.6	50	77	5	0.87
Lathom and Burscough	...	7633	*8141 †8071	1586	1632	53	58	111	13.6	2	45	57	102	12.6	5	45	1	0.37
Lees	...	4789	4759	1202	1211	23	34	57	11.9	2	33	35	68	14.2	2	35	...	0.63
Leigh (B)	...	45532	46260	9276	10230	342	366	708	15.3	23	310	281	591	12.7	51	72	3	0.75
Leyland	...	9031	9843	2121	2196	66	65	131	13.3	2	70	71	141	14.3	15	114	...	0.60
Litherland	...	16384	16730	3121	3446	146	155	301	17.9	11	87	94	181	10.8	24	79	1	1.07
Littleborough	...	11488	11290	3091	3101	87	90	177	15.6	3	74	83	157	13.9	12	67	...	0.26
Little Crosby	...	1123	1316	201	207	3	9	12	9.1	...	4	8	12	9.1	...	Nil	...	1.51
Little Hulton	...	7910	7949	1722	1766	48	47	95	11.9	3	46	40	86	10.8	11	115	...	0.88
Little Lever	...	4809	5126	1180	1186	25	41	66	12.8	2	35	21	56	10.9	4	60	...	0.39
Longridge	...	4302	4174	1032	1039	38	25	63	15.0	...	25	41	66	15.8	4	63	...	0.71
Lytham Saint Anne's (B)	...	25877	24500	4439	4744	128	119	247	10.0	21	154	183	337	13.7	14	56	1	0.53
Middleton (B)	...	28290	28910	6872	6894	214	197	411	14.2	17	201	175	376	13.0	26	63	1	0.41
Milnrow	...	8390	8704	2234	2273	50	60	110	12.6	5	43	73	116	13.3	11	100	2	0.91
Morecambe (B)	...	19178	15240	2920	3107	78	89	167	10.9	11	102	117	219	14.3	11	65	2	0.98
Mossley (B)	...	12703	11950	3163	3172	75	78	153	12.8	7	78	81	159	13.3	6	38	...	0.41
Nelson (B)...	...	39841	39810	9973	10115	223	215	438	11.0	14	234	283	517	12.9	25	57	1	0.40
Newton-in-Makerfield	...	18772	20100	3797	3931	170	169	339	16.8	16	105	104	209	10.3	17	50	1	0.69
Norden	...	4066	4284	1089	1094	24	27	51	11.9	3	27	26	53	12.3	3	58	1	0.70

* Population for birth-rate.

† Population for death rate.

TABLE 3—continued.

URBAN DISTRICTS.	Area in Statute Acres.	POPULATION AT ALL AGES.		No. of inhabited houses, Census, 1921.	No. of families or separate occupiers, Census, 1921.	BIRTHS.			No. of Illegitimate Births.			DEATHS.				INFANT MORTALITY.			Tuber- culosis of Respiratory System. Death Rate per 1,000.
		Census, 1921.	Estimate, 1927.			Number Registered.			Birth Rate per 1,000	No. of Illegitimate Births.	Number Registered.			Death Rate per 1,000	Number Deaths under One Year.	Mortality per 1,000 Registered Births.	Number of Deaths of Illegiti- mate Children.		
						M.	F.	Total.			M.	F.	Total.						
Ulverston	3196	10121	9406	2293	2390	78	61	139	14.7	11	86	68	154	8	57	...	...	0.21
Upholland	4686	5527	5599	1075	1143	49	49	98	17.5	1	33	33	66	8	81	...	...	0.17
Urmston	991	8297	8201	1970	2008	49	60	109	13.2	4	50	43	93	5	45	...	...	0.85
Walton-le-Dale	4656	12156	12440	2787	2820	86	104	190	15.2	3	72	93	165	11	57	...	...	0.56
Wardle	3192	4468	4639	987	990	33	27	60	12.9	2	45	31	76	6	100	1	...	0.64	
Waterloo-with-Seaforth	986	29624	*31520 †31280	6016	6711	304	265	569	18.0	32	167	184	351	29	50	3	...	0.79	
Westhoughton	5560	15592	17670	3310	3410	139	121	260	14.7	10	105	106	211	25	96	1	...	0.39	
Whitefield	1403	6902	7588	1693	1698	42	58	100	13.1	3	53	51	104	10	100	1	...	0.65	
Whitworth	4483	8779	8555	2368	2384	58	57	115	13.4	6	77	72	149	11	95	5	...	1.28	
Widnes (B)	5769	38860	42510	7293	7592	473	455	928	21.7	30	286	231	517	62	66	1	...	0.91	
Withnell	3705	3236	3510	774	801	16	28	44	12.5	1	19	19	38	...	Nil.	...	...	Nil.
Worsley	5434	13929	14610	3334	3400	83	71	154	10.5	2	89	110	199	10	64	...	...	0.27
Total Urban Districts	341884	1503673	*1542800 †1541800	335962	347799	11410	11105	22515	14.59	896	9914	9914	19828	1667	74	130	...	0.63	

RURAL DISTRICTS.

Barton-upon-Irwell	6762	10110	11920	2346	2401	107	94	201	16.8	3	62	67	129	10	49	...	0.75
Blackburn	19915	9849	10760	2317	2340	60	64	124	11.5	2	57	75	132	11	88	1	0.74
Burnley	41702	19180	19270	4880	4927	103	126	229	11.8	6	100	129	229	11	48	1	0.36
Bury	12017	9466	9494	2343	2382	72	66	138	14.5	5	78	72	150	11	79	2	0.42
Chorley	39989	21837	22240	4804	4895	159	182	341	15.3	12	145	154	299	24	70	...	0.26
Clitheroe	32170	6758	8922	1476	1484	46	28	74	8.2	2	48	36	84	6	81	...	0.56

TABLE 3—continued.

RURAL DISTRICTS.	Area in Statute Acres.	POPULATION AT ALL AGES.		No. of inhabited houses, Census, 1921.	No. of families or separate occupiers, Census, 1921.	BIRTHS.				DEATHS.				INFANT MORTALITY.			Tuber- culosis of Respiratory System. Death Rate per 1,000.	
		Census, 1921.	Estimate, 1927.			Number Registered.			Birth Rate per 1,000	No. of Illegitimate Births.	Number Registered.			Death Rate per 1,000	Number Deaths under One Year.	Mortality per 1,000 Registered Births.		Number of Deaths of Illegiti- mate Children.
						M.	F.	Total.			M.	F.	Total.					
Fylde	38633	12582	15280	2582	2659	101	116	217	14.2	13	87	99	186	12.1	14	64	2	0.32
Garstang	57491	10757	11230	2346	2375	94	78	172	15.3	3	67	83	150	13.3	12	69	...	0.53
Lancaster	54628	9734	9283	2082	2152	84	82	166	17.8	8	66	56	122	13.1	10	60	...	0.53
Leigh	11574	10714	11650	2155	2284	86	87	173	14.8	5	75	56	131	11.2	11	63	...	0.94
Limehurst	4689	9347	*9043 †8843	2155	2158	65	66	131	14.4	8	52	57	109	12.3	10	76	1	0.45
Lunesdale	76267	6654	6212	1520	1542	64	45	109	17.5	9	44	45	89	14.3	4	36	1	0.48
Preston	53000	23007	26970	4556	4677	200	186	386	14.3	16	164	144	308	11.4	31	80	3	0.22
Sefton	10689	4643	4602	912	931	47	45	92	19.9	2	34	23	57	12.3	6	65	1	0.86
Ulverston	127485	18523	16650	4215	4281	136	123	259	15.5	15	125	114	239	14.3	17	65	4	0.90
Warrington	18955	12129	13520	2589	2662	109	100	209	15.4	7	76	73	149	11.0	13	62	1	0.51
West Lancashire	61797	21151	22890	4529	4659	173	149	322	14.0	12	132	131	263	11.4	16	49	...	0.43
Whiston	33099	19523	22450	3616	3694	168	154	322	14.3	11	103	86	189	8.4	31	96	1	0.26
Wigan	11696	6293	6314	1362	1435	41	42	83	13.1	6	38	35	73	11.5	8	96	1	0.47
Total Rural Districts	712558	242237	*258700 †258500	52785	53938	1915	1833	3748	14.48	145	1553	1535	3088	11.94	256	68	19	0.47
Total Urban Districts	341884	1503673	*1542800 †1541800	335962	347799	11410	11105	22515	14.59	896	9914	9914	19828	12.86	1667	74	130	0.63
Total Administrative County	1054442	1745930	*1801500 †1800300	388747	401737	13325	12938	26263	14.57	1041	11467	11449	22916	12.72	1923	73	149	0.61

* Population for birth-rate.
† Population for death-rate.

TABLE 4—CAUSES OF DEATH IN EACH URBAN AND RURAL DISTRICT IN THE YEAR 1927.

URBAN DISTRICTS.		Total No. of Deaths from all causes.	MORTALITY FROM SUBJOINED CAUSES.																																				
			Enteric fever.	Smallpox.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria	Influenza.	Encephalitis lethargica.	Meningococcal meningitis.	Tuberculosis of respiratory system.	Other tuber- culous diseases.	Cancer, malign- ant disease.	Rheumatic fever.	Diabetes.	Cerebral hæmorrhage, &c.	Heart disease.	Arterio-sclerosis.	Bronchitis.	Pneumonia (all forms).	Other respira- tory diseases.	Ulcer of stomach or duodenum.	Diarrhœa, &c. under 2 years).	Appendicitis and typhlitis.	Cirrhosis of liver.	Acute and chronic nephritis.	Puerperal sepsis.	Other accidents & diseases of preg- nancy & parturition.	Congenital debility and malformation, premature birth.	Suicide.	Other deaths from violence.	Other defined diseases.	Causes ill-defined or unknown.	Special causes in- cluded in foregoing.				
Abram	...	90	...	...	...	...	...	7	...	...	4	2	4	...	1	3	11	6	7	16	1	1	...	...	...	...	2	1	...	...	7	...	2	15	...	...	
Accrington (B)	...	629	1	...	7	1	1	25	2	...	23	7	65	1	8	52	115	27	42	49	9	4	2	1	...	...	16	1	3	17	7	4	134	5	...	...	
Adlington	...	57	...	...	1	...	1	2	...	...	2	...	5	...	...	3	7	2	5	9	...	...	...	...	...	1	6	...	2	1	1	3	5	1	...	...	
Ashton-in-Makerfield	...	253	...	...	5	...	2	15	...	...	12	3	22	...	2	12	28	6	21	32	2	...	3	4	...	...	7	1	1	12	2	12	49	...	...	...
Ashton-under-Lyne (B)	...	672	...	...	3	...	9	16	2	...	38	5	82	3	5	25	108	45	41	47	4	6	12	3	4	...	21	2	4	30	5	28	124	...	...	...
Aspull	...	113	...	...	8	...	...	1	2	1	6	...	11	...	1	7	7	9	10	18	...	...	...	1	...	...	1	...	...	7	1	7	15	...	...	...
Atherton	...	217	...	...	...	...	...	19	1	...	15	2	21	...	4	12	29	29	9	22	1	1	...	2	1	...	7	1	1	7	1	9	23	...	...	...
Audenshaw	...	94	...	...	...	...	...	7	...	...	1	1	12	...	4	4	12	5	7	12	...	...	...	2	2	...	...	...	1	...	3	2	2	17	...	...	...
Bacup (B)	...	379	...	...	...	...	4	1	17	3	...	15	6	41	2	2	44	46	8	47	12	3	3	2	1	...	12	...	1	20	1	8	78	2	...	...	
Barrowford	...	68	...	...	...	...	...	7	...	...	2	1	5	...	...	3	9	3	5	5	1	...	...	...	1	...	3	...	...	...	2	1	2	16	...	...	...
Billinge-and-Winstanley	...	48	...	...	...	...	1	5	1	...	2	1	4	...	1	2	4	...	3	1	...	...	...	...	...	...	3	...	...	...	2	...	...	1	16	1	...	...
Blackrod	...	53	...	...	1	...	...	1	...	...	...	...	4	...	2	3	5	5	6	3	1	...	...	...	...	...	1	1	...	...	3	...	...	4	13	...	...	...
Brierfield	...	120	1	...	...	...	1	8	3	...	7	...	14	...	1	8	21	8	8	7	...	...	...	...	...	...	2	...	2	3	2	2	22	...	...	...	...
Carnforth	...	33	...	...	...	...	1	4	...	...	3	1	2	...	...	1	6	1	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	9	...	...	...
Chadderton	...	383	1	...	...	...	1	3	18	2	...	23	5	33	3	8	63	17	31	30	1	2	3	4	...	...	14	2	1	13	4	13	65	...	...	...	...	...
Chorley (B)	...	397	1	...	2	...	...	33	3	...	15	5	42	1	5	23	48	33	26	28	3	7	7	...	...	...	16	...	...	1	25	5	8	54	...	...	...	...
Church	...	90	...	...	1	...	...	5	...	...	6	4	9	...	1	2	14	1	3	16	...	...	...	...	...	1	1	...	...	2	3	3	1	15	2	...	...	...
Clayton-le-Moors	...	130	...	...	1	...	...	6	...	...	3	2	13	1	1	9	23	7	12	4	3	2	1	...	...	...	1	...	...	1	4	1	5	28	1	...	...	...
Clitheroe (B)	...	188	...	...	1	...	...	11	2	...	10	2	20	...	4	11	35	8	9	14	2	3	...	...	...	...	5	...	...	...	3	3	2	39	...	...	...	...
Colne (B)	...	372	...	...	4	1	...	28	1	1	18	6	52	...	4	21	52	16	38	25	6	4	4	1	1	...	14	2	1	18	5	4	60	1	...	...	...	...
Crompton	...	206	...	...	3	...	...	10	...	2	5	...	23	2	1	14	27	7	31	11	4	2	2	1	1	...	3	...	2	3	3	9	40	...	...	...	...	...
Croston	...	34	1	1	1	1	1	1	5	2	1	4	2	...	2	1	2	1	1	7
Darwen (B)	...	480	2	2	37	1	...	13	2	68	2	6	52	70	20	51	13

URBAN DISTRICTS.		No. of Deaths from all causes.	Enteric fever.	Smallpox.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria	Influenza.	Encephalitis lethargica.	Meningococcal meningitis.	Tuberculous or respiratory astate	Other tuber- culous diseases	Cancer, malign- ant disease.	Rheumatic fever.	Diabetes.	Cerebral hæmorrhage, &c.	Heart disease.	Arterio-sclerosis.	Bronchitis.	Pneumonia (all forms).	Other respira- tory diseases.	Ulcer of stomac or duodenum.	Diarrhœa, &c. (under 2 years).	Appendicitis and typhlitis.	Cirrhosis of liver.	Acute and chroni- c nephritis.	Puerperal sepsis.	Other accidents & diseases of preg- nancy & parturi- tion.	Congenital debility and malformation, premature birth.	Suicide.	Other deaths from violence.	Other defined diseases.	Causes ill-defin- ed or unknown.	Special causes in- cluded in foregoing.		
Denton	...	195	...	...	...	...	1	1	4	...	...	11	4	22	2	3	11	29	8	14	7	7	4	3	4	...	1	7	...	1	10	2	10	35	1	...
Droylsden	...	174	...	...	2	...	4	...	8	...	...	5	5	17	...	4	4	33	9	17	17	17	2	1	3	...	1	6	...	2	5	2	5	22	...	...
Eccles (B)	...	577	...	...	5	...	2	2	22	2	1	42	6	75	4	2	36	100	22	47	34	34	3	3	3	2	...	15	1	1	20	4	22	101	...	...
Failsworth...	...	186	1	...	2	...	...	2	13	3	...	12	3	22	2	3	8	18	7	18	16	16	3	1	2	...	2	6	1	...	10	2	3	26	...	...
Farnworth...	...	371	...	...	8	...	1	7	17	1	...	22	4	37	...	4	18	52	27	24	36	36	4	1	6	2	3	11	...	...	12	5	15	54	...	...
Fleetwood	...	263	...	...	...	...	2	3	15	...	...	20	3	18	3	6	16	39	3	20	21	21	2	2	2	1	1	5	...	...	18	1	18	44	...	...
Formby	...	64	...	...	...	1	...	...	4	...	...	3	...	7	...	...	3	8	9	3	3	3	1	1	...	...	...	5	1	...	4	1	1	8	1	...
Fulwood	...	79	...	...	...	...	...	2	2	...	...	2	1	9	...	1	2	21	7	6	6	6	...	...	...	1	...	5	...	...	3	...	3	8	...	...
Golborne	...	66	...	...	3	...	1	...	2	...	1	1	5	3	1	1	3	10	7	1	2	2	2	...	...	...	...	2	...	1	3	1	3	13	...	...
Grange-over-Sands	...	32	...	...	...	...	...	...	2	...	...	2	...	6	...	...	1	2	10	3	1	...	...	...	...	...	...	...	...	...	...	...	...	4	1	...
Great Crosby	...	153	...	...	...	1	...	...	9	1	...	7	3	14	...	...	17	27	12	7	8	8	1	4	...	...	4	1	...	...	4	2	4	26	1	...
Great Harwood	...	164	...	...	1	...	...	2	7	...	1	7	...	17	...	5	10	27	10	20	10	10	3	3	1	...	...	4	...	1	5	...	4	24	2	...
Hasingden (B)	...	259	1	...	2	1	4	3	11	1	...	5	4	22	1	4	23	46	7	19	18	18	4	1	...	2	1	19	...	1	3	2	9	43	2	...	
Haydock	...	138	...	...	7	...	1	1	11	...	...	2	4	8	2	1	5	15	15	10	19	19	3	1	2	...	...	2	...	...	9	...	6	12	1	...
Heysham	...	99	...	...	...	...	...	1	8	...	...	3	...	10	...	...	5	13	7	12	5	5	1	...	...	1	1	...	...	...	...	...	2	29	1	...
Heywood (B)	...	377	...	...	3	...	5	2	27	4	...	14	5	38	3	1	14	78	24	27	22	22	8	2	2	2	1	10	...	1	8	5	10	60	1	...
Hindley	...	277	...	...	2	...	4	...	8	2	...	13	5	27	1	1	26	42	9	24	32	32	2	3	6	2	...	4	2	1	9	...	12	40	...	...
Horwich	...	223	...	...	6	...	...	5	19	2	...	19	5	19	2	3	10	33	11	18	10	10	5	...	2	5	...	3	...	...	10	3	10	22	...	1
Huyton-with-Roby	...	66	3	...	2	...	5	2	1	9	...	1	2	14	2	2	6	6	3	1	2	1	9
Ince-in-Makerfield	...	311	...	...	14	...	2	1	15	1	1	24	8	22	1	1	18	16	5	40	48	48	4	2	4	...	1	5	...	...	19	2	8	44	3	...
Irlam	...	117	...	...	...	...	2	...	9	...	1	10	5	12	1	2	2	10	1	9	3	3	1	...	1	...	2	5	...	1	9	1	9	20	1	1
Kearsley	...	115	...	...	1	...	...	...	8	...	1	8	2	12	...	2	7	16	10	7	9	9	1	...	2	1	...	5	...	...	3	1	4	15	...	...
Kirkham	...	58	...	...	...	...	1	...	4	...	...	4	1	2	...	...	5	4	1	1	6	6	2	...	1	...	...	1	...	...	2	1	2	20	...	...
Lancaster (B)	...	560	2	...	8	1	2	...	27	3	...	36	5	67	1	5	36	74	13	47	51	51	10	5	4	5	2	18	...	1	18	8	9	99	3	...	

TABLE 4—continued.

URBAN DISTRICTS.		Total No. of Deaths from all causes.	MORTALITY FROM SUBJOINED CAUSES.																											Special causes in- cluded in foregoing.						
			Enteric fever.	Smallpox.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria	Influenza.	Encephalitis lethargica.	Meningococcal meningitis.	Tuberculosis of respiratory system.	Other tuber- culous diseases.	Cancer, malig- nant disease.	Rheumatic fever.	Diabetes.	Cerebral hæmorrhage, &c.	Heart disease.	Arterio-sclerosis.	Bronchitis.	Pneumonia (all forms).	Other respira- tory diseases.	Ulcer of stomach or duodenum.	Diarrhoea, &c. (under 2 years).	Appendicitis and typhlitis.	Cirrhosis of liver.	Acute and chronic nephritis.	Puerperal sepsis.	Other accidents & diseases of preg- nancy & parturition.		Congenital debility and malformation, premature birth.	Suicide.	Other deaths from violence	Other defined diseases.	Causes ill-defined or unknown.	
Lathom and Burscough ...		162	...	...	...	1	1	6	1	...	3	1	15	2	...	11	16	2	9	4	...	1	1	2	...	3	3	...	...	1	...	2	2	16	...	...
Lees ...		68	...	...	...	1	...	3	...	...	3	...	6	...	...	2	11	5	8	6	...	...	...	...	...	...	5	...	...	1	2	...	1	14	...	...
Leigh (B) ...		591	...	...	1	...	8	36	3	2	35	9	52	2	...	36	64	41	59	38	5	4	6	...	2	...	...	11	...	7	25	11	16	109	1	...
Leyland ...		141	...	...	...	1	...	9	...	...	6	...	13	1	2	9	20	2	12	16	3	...	...	...	1	...	4	...	...	...	6	2	2	31	...	...
Litherland ...		181	...	...	3	...	3	5	...	...	18	6	23	1	1	6	19	6	8	18	4	1	6	...	2	...	7	...	2	7	2	6	24	...	1	...
Littleborough ...		157	...	...	1	...	...	9	3	...	3	1	14	...	1	16	14	11	17	8	2	...	...	1	...	3	...	...	1	6	4	5	35	1	...	
Little Crosby ...		12	...	...	...	...	...	1	...	...	2	...	1	...	...	...	...	1	...	2	...	...	1	...	...	...	1	...	...	...	...	...	...	3	...	...
Little Hulton ...		86	...	...	1	...	...	4	1	...	7	...	8	...	4	7	12	4	6	4	1	...	...	...	...	2	...	...	...	...	3	1	3	18	...	...
Little Lever ...		56	...	...	...	...	...	1	...	...	2	1	7	...	...	5	5	5	4	4	1	1	...	...	...	...	...	...	...	...	2	1	3	12	1	...
Longridge ...		66	...	...	1	...	...	...	1	...	3	1	6	...	1	5	14	...	...	9	4	2	1	1	...	...	2	...	...	2	...	2	10	1	...	...
Lytham Saint Anne's (B)		337	1	...	...	...	...	15	...	...	13	5	36	1	6	13	57	27	24	15	6	7	1	...	...	2	14	...	2	7	4	12	64	1	...	...
Middleton (B) ...		376	...	...	...	3	...	18	2	...	12	4	45	...	4	24	81	19	33	18	4	3	6	...	3	2	17	...	1	9	10	10	45	...	...	...
Milnrow ...		116	...	...	...	1	...	8	...	...	8	2	9	3	...	8	17	11	7	4	...	...	1	...	...	1	1	...	1	6	...	3	24	1	...	...
Morecambe (B) ...		219	...	...	1	...	1	13	...	...	15	...	19	1	5	13	34	8	26	7	3	5	1	...	2	...	5	...	...	4	1	5	48	2	...	...
Mossley (B) ...		159	...	...	...	...	1	2	...	...	5	1	15	...	...	7	34	10	15	7	2	4	1	1	1	15	...	...	3	4	4	2	4	25	...	...
Nelson (B)...		517	3	...	2	...	2	36	1	...	16	7	49	3	7	37	104	24	50	27	3	4	2	...	2	3	13	...	2	16	9	9	82	4	...	...
Newton-in-Makerfield		209	...	...	...	...	1	13	...	...	14	3	28	...	8	6	28	7	7	16	5	2	4	...	3	...	5	...	1	13	2	11	32	...	...	...
Norden ...		53	...	...	...	...	...	8	...	...	3	1	4	...	1	3	8	4	5	1	1	...	1	...	...	...	4	...	...	1	2	...	2	4	...	...
Ormskirk ...		95	...	...	2	...	...	5	1	...	4	2	6	1	1	5	20	4	6	9	1	1	1	1	1	...	2	...	...	...	3	...	4	15	1	...
Orrell ...		78	...	...	...	...	2	5	...	...	3	2	6	...	1	6	6	1	5	10	1	...	...	...	1	3	...	1	6	2	5	12	...	...	...	...
Oswaldtwistle		194	...	...	3	1	...	7	1	...	7	3	24	...	1	11	26	5	12	12	1	2	3	1	...	7	3	...	8	...	11	43	2	...	...	...
Padiham ...		196	...	...	3	...	4	10	...	1	10	...	19	2	2	13	33	7	22	11	4	1	1	1	1	...	4	...	...	5	1	...	41	1	...	...
Poulton-le-Fylde ...		47	...	...	...	...	...	2	...	...	1	...	8	...	1	3	5	4	1	4	1	...	...	...	...	...	...	...	1	2	1	1	11	...	...	...
Preesall ...		31	...	...	...	...	...	2	...	...	...	...	6	...	...	2	10	2	2	...	...	...	...	...	...	...	...	...	1	...	1	2	4	...	...	...

URBAN DISTRICTS.		Total No. of Deaths from all causes.	Enteric fever.	Smallpox.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Influenza.	Encephalitis lethargica.	Meningococcal meningitis.	Tuberculosis of respiratory system.	Other tuberculous diseases.	Cancer, malignant disease.	Rheumatic fever.	Diabetes.	Cerebral hæmorrhage, &c.	Heart disease.	Arterio-sclerosis.	Bronchitis.	Pneumonia (all forms).	Other respiratory diseases.	Ulcer of stomach or duodenum.	Diarrhoea, &c. (under 2 years).	Appendicitis and typhlitis.	Cirrhosis of liver.	Acute and chronic nephritis.	Puerperal sepsis.	Other accidents & diseases of pregnancy & parturition.	Congenital debility and malformation.	Suicide.	Other deaths from violence.	Other defined diseases.	Causes ill-defined or unknown.	Special causes included in foregoing.				
Prestwich	231	...	...	1	...	1	1	17	...	...	16	2	28	...	5	14	37	16	9	12	3	...	...	...	4	1	5	...	...	1	11	2	6	39	...	...
Radcliffe	320	...	...	4	1	...	3	22	...	...	12	5	41	2	6	17	50	18	24	25	6	2	...	...	1	2	7	...	...	...	9	6	9	47	1	...	...
Rainford	31	...	...	...	...	...	...	3	...	...	...	...	4	...	...	2	1	...	3	3	...	...	...	...	...	1	1	1	...	...	2	...	1	9	...	...	...
Ramsbottom	220	...	...	3	2	...	...	8	...	...	11	1	20	1	3	7	42	16	12	14	6	2	1	1	1	1	6	1	...	...	5	3	4	49	...	...	...
Rawtenstall (B)	278	...	...	1	...	...	2	25	...	...	14	6	52	2	3	23	64	20	17	15	3	6	2	2	2	25	...	...	3	15	5	13	53	5	...	...
Rishton	92	...	...	1	...	...	1	7	1	...	2	2	8	...	1	2	20	1	8	6	1	...	...	...	...	1	3	...	...	1	3	2	4	16	1	...	...
Royton	201	...	...	...	...	...	1	3	4	...	5	3	16	3	3	13	35	5	20	8	1	...	2	4	...	4	...	...	...	1	15	3	8	43	1	...	...
Skelmersdale	77	...	...	...	...	...	1	5	1	...	6	1	8	1	...	6	10	...	6	2	...	1	...	1	...	4	...	...	...	...	5	1	8	10	...	...	...
Standish-with-Langtree	93	...	...	...	...	...	...	4	1	...	1	1	12	...	2	9	9	3	5	11	...	...	...	1	...	5	...	...	...	11	1	3	13	1	...	...	...
Stretford	597	2	...	1	...	6	1	27	2	...	34	4	86	4	4	47	82	26	41	48	6	4	1	1	2	3	...	19	2	2	22	6	18	95	...	...	...
Swinton and Pendlebury	...	350	...	...	2	1	1	2	12	4	...	24	6	40	2	3	30	50	11	29	24	6	1	1	1	3	...	14	1	...	1	15	5	8	54	...	...	...
Thornton Cleveleys	100	...	...	...	...	...	...	1	...	...	6	...	18	...	4	2	18	12	5	4	...	2	...	...	...	1	1	...	...	4	1	4	17	...	...	...	...
Tottington	91	...	...	...	...	1	...	4	...	...	4	1	12	...	...	1	18	9	6	13	2	1	1	1	...	...	1	...	...	5	...	2	10	...	...	...	...
Trawden	35	1	...	2	...	...	...	1	...	...	...	...	4	...	...	1	7	4	2	2	...	...	...	...	...	...	1	...	...	3	1	...	...	6	...	...	...
Turton	176	...	...	1	...	...	2	8	...	...	9	3	18	3	7	8	31	12	10	6	...	1	2	...	1	5	3	...	...	3	3	4	35	1	...	...	...
Tyldesley-with-Shakerley	...	209	1	1	...	1	16	13	2	24	...	5	6	31	24	7	21	1	1	3	1	...	5	1	1	11	4	9	19	1
Ulverston	154	1	...	2	...	3	1	...	2	1	17	2	2	17	32	9	12	8	1	2	1	...	1	2	1	4	2	5	24	2
Upholland	66	1	5	1	2	5	...	1	7	14	...	4	4	3	3	1	2	12
Urmston	93	2	1	...	7	4	14	6	14	4	2	5	3	2	1	2	...	3	4	2	2	15
Walton-le-Dale	165	1	...	1	...	5	7	4	25	...	3	6	19	5	18	14	5	2	2	...	5	7	2	5	28	1
Wardle	76	2	2	8	3	2	6	...	1	6	7	8	10	2	1	...	1	...	1	2	2	12
Waterloo-with-Seaforth	351	1	...	2	2	2	...	5	...	...	25	7	45	...	6	25	41	22	19	23	6	1	5	4	2	16	1	...	...	17	2	13	58	1	...	...	...
Westhoughton	211	2	...	3	...	2	...	16	1	...	7	2	10	2	6	13	22	8	30	22	1	2	1	1	12	2	11	34	1
Whitefield	104	2	5	5	1	10	...	1	7	23	12	1	7	2	3	...	2	4	2	2	15
Whitworth	149	3	1	9	2	...	11	2	8	...	1	17	24	11	8	9	2	3	5	2	3	3	22

TABLE 4—continued.

URBAN DISTRICTS.		Total No. of Deaths from all causes.	MORTALITY FROM SUBJOINED CAUSES.																											Special causes included in foregoing.						
			Enteric fever.	Smallpox.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria	Influenza.	Encephalitis lethargica.	Meningococcal meningitis.	Tuberculosis of respiratory system.	Other tuberculous diseases.	Cancer, malignant disease.	Rheumatic fever.	Diabetes.	Cerebral hæmorrhage, &c.	Heart disease.	Arterio-sclerosis.	Bronchitis.	Pneumonia (all forms).	Other respiratory diseases.	Ulcer of stomach or duodenum.	Diarrhoea, &c. (under 2 years).	Appendicitis and typhlitis.	Cirrhosis of liver.	Acute and chronic nephritis.	Puerperal sepsis.	Other accidents & diseases of pregnancy & parturition.		Congenital debility and malformation, premature birth.	Suicide.	Violence apart from suicide.	Other defined diseases.	Causes ill-defined or unknown.	
Widnes (B)	...	517	...	...	5	...	19	2	49	...	39	7	49	1	3	19	46	21	22	41	2	2	3	4	...	10	3	...	...	36	4	19	105	6	...
Withnell	...	38	...	...	...	...	...	...	1	...	...	...	3	...	...	2	18	1	...	2	1	...	...	...	...	...	...	...	1	...	...	3	6	...	...
Worsley	...	199	...	...	...	...	...	...	9	1	4	4	26	2	1	14	38	10	11	17	2	1	...	1	1	1	1	1	1	5	...	11	38	...	...
Total Urban Districts	...	19828	22	...	162	21	102	98	1064	77	981	263	2091	81	234	1211	2958	1031	1519	1423	233	142	159	114	64	597	35	81	773	224	629	3353	74	3	...	
RURAL DISTRICTS.																																				
Barton-upon-Irwell	...	129	...	...	1	...	...	1	9	...	9	4	12	...	2	6	25	4	4	6	1	1	1	...	...	2	1	...	...	7	4	8	21	...	...
Blackburn	...	132	...	2	...	...	...	...	6	1	8	3	12	...	1	8	24	5	11	10	2	...	...	...	...	1	...	...	...	6	3	6	23	...	...
Burnley	...	229	...	2	...	...	...	4	12	2	7	2	17	...	1	15	47	14	25	16	2	2	...	3	1	7	...	...	...	5	5	8	29	2	...
Bury	...	150	...	...	...	...	...	...	12	1	4	1	9	1	4	7	25	15	9	15	3	2	2	2	1	4	...	...	...	5	2	8	16	...	...
Chorley	...	299	...	2	...	...	...	1	25	1	6	1	30	1	5	22	44	10	32	22	6	3	...	...	...	9	2	...	...	16	3	8	43	2	...
Clitheroe	...	84	...	...	...	...	...	...	3	...	5	1	15	...	...	4	13	3	7	4	...	2	1	1	...	2	...	...	...	2	1	2	16	2	...
Fylde	...	186	...	...	...	...	...	1	7	...	5	1	25	...	1	14	29	6	6	12	1	...	1	1	1	6	...	...	2	10	...	7	50	...	...
Garstang	...	150	...	1	...	...	...	...	20	1	6	1	15	1	3	11	29	8	9	3	1	...	1	3	...	3	...	...	...	5	...	1	27	1	...
Lancaster	...	122	...	1	...	...	...	...	14	...	5	2	11	1	2	9	15	4	11	2	...	...	...	...	...	1	...	...	1	5	...	6	32	...	1 Polio-myelitis.
Leigh	...	131	1	...	...	...	...	...	7	...	11	1	18	...	1	7	12	12	7	13	2	...	1	2	...	3	...	...	...	3	1	3	25	...	...
Linchurst	...	109	...	1	1	...	3	...	4	...	15	2	1	5	20	5	6	4	1	4	1	6	...	3	24
Lunesdale	...	89	...	...	...	...	...	...	9	...	3	2	6	...	...	5	13	2	7	2	1	...	...	4	...	2	...	...	1	2	...	2	27	1	...
Preston	...	308	...	2	...	...	...	1	24	...	6	4	28	1	6	18	44	10	20	21	3	4	3	2	2	12	1	...	...	22	4	9	61	...	...
Sefton	...	57	...	1	...	...	...	1	4	...	4	1	3	1	1	2	10	1	4	5	1	...	...	...	1	2	...	...	...	3	1	...	11	...	...
Ulverston	...	239	2	...	1	...	2	...	11	2	15	1	30	1	3	23	42	12	16	11	2	1	1	1	...	6	...	...	1	10	3	6	33	3	...
Warrington	...	149	1	...	...	...	2	...	10	1	7	1	16	...	4	11	25	8	2	6	2	2	3	...	2	4	1	...	...	6	2	7	27	1	...
West Lancashire	...	263	...	1	...	...	...	...	17	3	10	2	35	2	4	16	36	9	16	17	2	3	1	1	...	6	...	...	...	11	2	12	63	...	...
Whiston	...	189	...	...	...	...	2	...	...	...	6	3	14	1	2	7	24	6	11	24	4	2	1	3	...	...	1	...	2	17	2	11	40	1	...
Wigan	...	73	4	...	3	2	9	...	1	3	6	4	8	10	...	1	3	1	1	1	3	13	...	1 Polio-myelitis.
Total Urban Districts	...	19828	22	...	162	21	102	98	1064	77	981	263	2091	81	234	1211	2958	1031	1519	1423	233	142	159	114	64	597	35	81	773	224	629	3353	74	3	...	
Total Administrative Districts.																																				

The relative importance from the point of view of mortality of various well-defined diseases or groups of diseases is shown in the following statement :—

	No. of deaths in 1927.	Percentage to total deaths in 1927.	Percentage to total deaths in 1926.
Heart Disease	3441	15·0 per cent.	13·9 per cent.
Cancer, malignant disease	2411	10·5 „	10·7 „
Bronchitis	1724	7·5 „	7·6 „
Pneumonia (all forms)	1626	7·0 „	7·0 „
Cerebral hæmorrhage, &c.	1404	6·1 „	6·8 „
Tuberculosis (all forms)	1401	6·1 „	6·7 „
Influenza	1264	5·5 „	2·5 „
Arterio-sclerosis	1169	5·1 „	4·4 „
Violence (including suicide)	997	4·3 „	4·0 „
Congenital debility and malformation, premature birth	915	3·9 „	4·4 „
Acute and chronic nephritis	675	2·9 „	3·1 „
*Principal infectious diseases	619	2·7 „	3·4 „

* Includes smallpox, measles, scarlet fever, whooping cough, diphtheria, enteric fever, and diarrhœa (under 2 years).

Compared with the year 1926, there was a marked increase in the number of deaths from influenza, viz., 723; heart disease came next with 446 more deaths; arterio-sclerosis an increase of 222; pneumonia, 109; cancer, 99; violence, 93; and bronchitis, 83. There were decreases in the deaths from whooping cough, 127; cerebral hæmorrhage, 66; congenital malformations, 47; tuberculosis (all forms), 43.

Further details respecting the principal causes of death are given in the following paragraphs :

HEART DISEASE.—The fatalities from heart disease rose from 2,995 in the year 1926, to 3,441 during the year under report, an increase of 446. These deaths represented no less than 15 per cent. of the total deaths in the County area, as compared with a percentage of 13·9 last year. The death rate per 1,000 of the population was 1·91 in 1927, and 1·67 in 1926.

The statement below gives the ten years' figures :—

Year.	No. of Deaths.	Rate per 1000 of Population.	Percentage to total deaths from all causes.
1918	2,250	1·46	8·4
1919	2,323	1·39	9·9
1920	2,141	1·23	9·7
1921	2,308	1·31	10·6
1922	2,837	1·60	12·1
1923	2,707	1·52	12·4
1924	2,776	1·53	12·4
1925	3,113	1·74	13·7
1926	2,995	1·67	13·9
1927	3,441	1·91	15·0

CANCER (MALIGNANT DISEASE).—This disease again holds the second position among the principal fatal diseases, heart disease having the first place. The deaths in the County area registered as due to cancer during the year 1927 numbered 2,411, against 2,312 deaths in 1926—an increase of 99.

The death-rate per 1,000 of the population was equivalent to 1·33, against 1·29 per 1,000 in 1926, but there was a fractional decline in the percentage to total deaths from all causes, viz. 10·5 in 1927; 10·7 in 1926.

Although the cancer mortality records were given last year at some length, it is well to keep them to the front, and the County statistics extending over a period of years are reproduced, the details of the deaths in the year 1927 being added.

Cancer records for the Administrative County are available since the year 1900, and below are given the number of deaths each year ascribed to this disease, and the County death-rates per 1,000 of the estimated population. For purposes of comparison the rates for England and Wales are also given :—

Year.	Number of Deaths.	Death-rate.		Year.	Number of Deaths.	Death-rate.	
		Administrative County.	England and Wales.			Administrative County.	England and Wales.
1900	1072	0·54	0·90	1914	1668	0·95	1·06
1901	1149	0·62		1915	1577	0·94	1·21
1902	1113	0·60		1916	1728	1·06	1·16
1903	1223	0·65		1917	1713	1·09	1·19
1904	1229	0·65		1918	1727	1·12	1·19
1905	1164	0·65		1919	1793	1·07	1·18
1906	1214	0·69		1920	1880	1·08	1·16
1907	1254	0·70		1921	1981	1·12	1·21
1908	1283	0·71		1922	2063	1·16	1·22
1909	1374	0·75		1923	2076	1·17	1·26
1910	1333	0·74		1924	2182	1·22	1·29
1911	1493	0·86	0·99	1925	2273	1·27	1·33
1912	1466	0·83	1·02	1926	2312	1·29	1·36
1913	1618	0·93	1·06	1927	2411	1·33	1·37

During the twenty-seven years the cancer deaths in the County area have increased by about 125 per cent. How much of this is due to more careful diagnosis and more accurate certification of the cause of death it is, of course, not possible to record.

The incidence of cancer amongst males and females, as indicated by the mortality returns, is shown by the following figures :—

Year.	Percentage of Cancer deaths.		Year.	Percentage of Cancer deaths.	
	Male.	Female.		Male.	Female.
1918	44·1	55·9	1923	43·4	56·6
1919	43·1	56·9	1924	46·8	53·2
1920	44·0	56·0	1925	45·8	54·2
1921	43·0	57·0	1926	47·1	52·9
1922	44·3	55·7	1927	46·3	53·6

The following table groups the cancer deaths in the County in certain age periods, for males and females :—

Year.	Total Cancer Deaths.	Sex.	Years.			
			Under 25.	25—45.	45—65.	65 and upwards.
1918	1,727	M.	8	39	413	302
		F.	10	127	504	324
1919	1,793	M.	6	62	416	290
		F.	6	123	539	351
1920	1,880	M.	8	69	463	287
		F.	5	113	543	392
1921	1,981	M.	16	65	453	317
		F.	4	132	566	428
1922	2,063	M.	15	48	519	331
		F.	10	120	559	461
1923	2,076	M.	15	47	458	382
		F.	10	103	572	489
1924	2,182	M.	15	53	543	411
		F.	6	125	591	438
1925	2,273	M.	11	75	528	427
		F.	11	142	585	494
1926	2,312	M.	10	58	561	460
		F.	11	120	609	483
1927	2,411	M.	12	66	569	471
		F.	9	113	634	537

This table gives the percentage to total cancer deaths for both sexes at stated age periods :—

Percentage to total Cancer deaths at specified age periods (crude rates).						
Year.		Under 25 years.	25—45 years.	45—65 years.	65 years and upwards.	At all ages.
		%	%	%	%	%
1918 ...	M.	0·5	2·3	23·9	17·4	44·1
	F.	0·6	7·4	29·2	18·7	55·9
1919 ...	M.	0·3	3·5	23·2	16·1	43·1
	F.	0·3	6·9	30·1	19·6	56·9
1920 ...	M.	0·4	3·7	24·6	15·3	44·0
	F.	0·3	6·0	28·9	20·8	56·0
1921 ...	M.	0·8	3·3	22·9	16·0	43·0
	F.	0·2	6·7	28·5	21·6	57·0
1922 ...	M.	0·7	2·3	25·2	16·1	44·3
	F.	0·5	5·7	27·1	22·4	55·7
1923 ...	M.	0·7	2·3	22·0	18·4	43·4
	F.	0·5	4·9	27·6	23·6	56·6
1924 ...	M.	0·7	2·4	24·9	18·8	46·8
	F.	0·3	5·7	27·1	20·1	53·2
1925 ...	M.	0·5	3·3	23·2	18·8	45·8
	F.	0·5	6·3	25·7	21·7	54·2
1926 ...	M.	0·4	2·5	24·3	19·9	47·1
	F.	0·5	5·2	26·3	20·9	52·9
1927 ...	M.	0·4	2·7	23·6	19·5	46·3
	F.	0·3	4·6	26·2	22·2	53·6

County cancer mortality shown per 100,000 of each sex living at various age periods for the years 1921–1927* :—

Year.		Under 25 years.	25—45 years.	45—65 years.	65 years and upwards.
Per 100,000 living at these age periods—					
1921 ...	M.	4·2	26·3	270·0	805·7
	F.	1·0	45·5	306·5	806·1
1922 ...	M.	3·9	19·4	309·3	841·2
	F.	2·5	41·3	302·7	868·3
1923 ...	M.	3·9	19·0	272·9	970·9
	F.	2·5	35·5	309·7	921·0
1924 ...	M.	3·9	21·4	323·6	1044·6
	F.	1·5	43·1	320·7	824·9
1925 ...	M.	2·9	30·4	314·7	1085·2
	F.	2·8	48·9	316·8	930·4
1926 ...	M.	2·6	23·5	334·3	1169·1
	F.	2·8	41·3	329·8	909·7
1927 ...	M.	3·1	26·7	339·1	1197·4
	F.	2·3	38·9	343·5	1011·4

* The averages shown in this Table are based on the age and sex distribution of the population as at the Census 1921, the figures for the later years not being available.

One feature shown by the cancer mortality statistics is the extent to which the fatal period has been postponed to later life, but in this connection allowance must be made for the increasing age of the population and the general increase in the proportion of deaths occurring at the higher ages.

The England and Wales mortality averages, showing the rise in the cancer death-rate of the whole country during the last 57 years are set out below:—

Years.				Cancer death rate per million persons living.
1871–1880	...	...	...	470
1881–1890	...	...	...	591
1891–1900	...	...	...	757
1901–1910	...	...	...	904
1911–1920	...	...	...	1117
1921–1925	...	...	...	1269
1926	...	...	...	1862
1927	...	...	...	1376

Statistics are not available as regards the County cancer deaths showing the anatomical distribution, but Table 5, given below, which has been prepared from the figures published annually by the Registrar-General, “brings out the preponderance with which certain sites are affected, e.g. in males, the stomach, intestines, rectum, œsophagus and tongue; in females, the breast, uterus, stomach, intestines and rectum. In other words in males most cases occur in the digestive tract, in females the sex organs are most affected, followed closely by the digestive tract” (vide Sir George Newman’s report for the year 1926).

TABLE 5.—DEATHS FROM CANCER AND THE DISTRIBUTION OF THE RECORDED FATAL CASES IN ENGLAND AND WALES, 1918–1927.

Site affected.				1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.	1926.	1927.
Buccal cavity...	...	...	M.	2357	2387	2449	2482	2415	2548	2507	2649	2570	2713
	...	...	F.	377	378	369	358	361	414	423	428	433	430
Pharynx, œsophagus, stomach, liver, and annexa	...	...	M.	6938	7259	7477	7926	8179	8335	8552	9003	9065	9143
	...	...	F.	6378	6289	6576	6818	7007	7070	7153	7428	7740	7499
Peritoneum, intestines, and rectum	...	...	M.	3914	4178	4439	4683	4790	5010	5437	5544	5888	5968
	...	...	F.	4649	4617	4780	5059	4964	5338	5528	5601	6032	6025
Female genital organs	...	...	F.	4997	5000	5005	5436	5354	5572	5626	5705	5791	5872
Breast	...	...	M.	37	28	35	33	42	34	38	39	43	41
	...	...	F.	4082	4309	4488	4684	4826	4996	5153	5372	5296	5678
Skin	...	...	M.	647	714	702	719	727	756	824	787	817	821
	...	...	F.	392	416	385	401	439	427	460	432	427	475
Other or unspecified organs	...	...	M.	4185	4157	4557	4806	5113	5382	5741	5980	6054	6362
	...	...	F.	2274	2412	2425	2617	2686	2786	2947	2971	3064	3051
Total Cancer deaths	...	...	M.	18078	18723	19659	20649	21266	22065	23099	24002	24437	25048
	...	...	F.	23149	23421	24028	25373	25637	26603	27290	27937	28783	29030

Extracted from the Registrar-General’s Statistical Review for 1927.

The Ministry of Health, in Circular 834 (re Annual Reports), asked Medical Officers of Health for any observations which it may seem desirable to make and for references to any local action taken to improve the facilities for diagnosis and treatment of cancer; also for a record of any special enquiries relating to cancer. Circulars or leaflets have been issued by the Health Authorities of Ashton-under-Lyne (B), Chorley (B), Horwich, &c. Lectures on this subject were given at Oswaldtwistle and at Middleton (B), and at the latter place articles appeared in the local press. At Nelson (B), for confirmation, pathological specimens are examined at the public health laboratory.

The Ministry of Health, on the 28th December, 1927, issued the sixth of a Series of Memoranda on the subject of cancer. This issue is in regard to cancer of the uterus. No. (V) was on cancer of the breast; (IV) on experimental cancer research; (III) on cancer of the breast: the results of treatment and operation; (II) on the effects of radium and X-ray upon normal and cancerous tissues; and (I) characteristic features and natural course of cancer.

BRONCHITIS.—Deaths registered in 1927 as due to bronchitis numbered 1,724 (males, 826; females, 898); against 1,641 deaths in the preceding year, an increase of 83, and representing 7·5 per cent. of the total deaths from all causes. The death-rates per 1,000 of the estimated population were: County, 0·95; urban districts, 0·98; rural districts, 0·79.

PNEUMONIA (ALL FORMS).—The fatalities from pneumonia in 1927 also show an increase, viz.: 1,626 against 1,517 in the year 1926, an increase of 109. The 1,626 deaths were equivalent to 7·0 per cent. of the total deaths. The County death-rate per 1,000 was 0·90, 0·92 in the urban districts, and 0·78 in the rural districts.

INFLUENZA.—There was a marked increase in the number of deaths from influenza, viz., 1,264, as compared with 541 in 1926, an increase of 723. The fatalities were more numerous than in any year since 1919. The death-rate in 1927 per 1,000 of the population was 0·70. Two-thirds of the total deaths occurred in the months of February and March. Schools were closed on account of this disease in 41 districts. On the 19th January, 1927, the Minister of Health issued Circular 761, to which was appended Memo. 2 Med. on influenza, the special attention of local authorities being drawn to the administrative measures suggested in Part III. The Minister stated that in view of the possibility of the disease again becoming epidemic, local authorities should give consideration to the facilities which they can provide for assisting persons suffering from influenza with a view to those facilities being available if and when they are required.

TUBERCULOSIS (ALL FORMS).—Deaths registered in 1927 under the head of tuberculosis numbered 1,401, viz., to tuberculosis of the respiratory system (pulmonary), 1,105; to other tuberculous diseases, 296. In 1926 the total deaths were 1,444; pulmonary, 1,158; other forms, 286. The death rates in 1927 were:—pulmonary, 0·61 per 1,000 of the population, non-pulmonary, 0·16. These deaths are analysed on pages 128 and 129.

CEREBRAL HÆMORRHAGE gave rise to 1,404 deaths, 66 less than in the year 1926.

CONGENITAL DEBILITY AND MALFORMATION, PREMATURE BIRTH.—Fatalities registered in this group numbered 915 compared with 962 in the preceding year. They represented 3·9 per cent. of the total deaths, and were equivalent to a rate of 0·50 per 1,000 of the population.

THE PRINCIPAL INFECTIOUS DISEASES.—References to the cases notified and the deaths from smallpox, measles, scarlet fever, whooping cough, diphtheria, enteric fever and diarrhœa, and to other notifiable diseases, are made in the section of the report headed "Prevalence and Control over Infectious Diseases," pages 105 to 138. The total number of deaths in 1927 ascribed to the seven diseases mentioned above was 619, or 2·7 per cent. of the total deaths from all causes. In 1926 there were 747 deaths, representing 3·4 per cent. of the total deaths.

TRANSFERABLE DEATHS.—During the year under report the following "transfers" were made:—4,522 persons who, having a fixed or usual residence in the Administrative County, died in a district other than that in which they resided, and these (known as inward transfers) have been allocated to their proper districts; 4,646 deaths occurring in County districts of persons not belonging thereto were transferred to the areas to which they belonged. In the year 1926, the transfers were:—Inward 4,094, Outward 4,323.

Infant Mortality.—The number of deaths of infants under the age of one year, registered in the Administrative County in the year 1927, was 1,923, or 8·39 per cent. of the total deaths at all ages. In 1926 the infant deaths numbered 2,254, or 10·50 per cent. of the total deaths.

An analysis of the infant mortality of 1927, and the preceding four years is given in the following table :—

Causes of Infant Deaths.	No. of Deaths of Infants under 1 year.				
	1923.	1924.	1925.	1926.	1927.
Total—All Causes	2468	2420	2334	2254	1923
Measles	34	58	44	38	35
Scarlet Fever	2	2	2	3	—
Whooping Cough	93	88	102	117	46
Diphtheria	7	8	3	2	3
Influenza	19	27	18	15	30
Encephalitis Lethargica	—	2	1	2	—
Meningococcal Meningitis	1	4	5	4	3
Tuberculosis of Respiratory System	2	5	4	2	1
Other Tuberculous Diseases	36	31	19	24	21
Bronchitis	219	192	186	183	118
Pneumonia (all forms)	335	368	343	341	272
Other Respiratory Diseases	12	12	13	16	10
Diarrhœa, &c.	180	189	205	178	150
Congenital Debility and Malformation, Premature Birth	1051	1022	985	935	902
Other Causes	477	412	404	394	332

Congenital debility, premature birth, &c., contributed 46 per cent. of the total deaths of children under the age of one year; the second most serious cause of death was pneumonia, followed in order of greatest mortality, by diarrhœa and bronchitis.

There was a marked reduction in 1927 in the number of infant deaths, and in the mortality rate calculated per 1,000 registered births compared with the year 1926. The deaths numbered 1,923 against 2,254, and the rate per 1,000 births 73 against 80.

The infant mortality rate is the lowest recorded, both for the whole County and for the Urban districts. In the four preceding years the County rate was almost stationary, viz., 80, 82, 81 and 80, and the fall in the mortality rate in 1927, viz., 7 per 1,000 births, is greater than in any year since 1919; it then fell from 100 in the year 1918 to 93.

The following table gives the infant death-rates, County, urban, and rural, for 1927 and the preceding ten years, and also the rate for England and Wales :—

	Rate of Deaths of Children under 1 Year to 1,000 Births.										
	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.	1926.	1927.
Urban Districts ...	96	101	94	95	90	87	82	84	83	82	74
Rural Districts ...	94	90	88	67	76	75	67	68	71	71	68
Administrative County	96	100	93	91	88	85	80	81	82	80	73
England and Wales	97	97	89	80	83	77	69	75	75	70	69

Reference to Table 1, page 12, shows that, taking the quinquennial periods, the greatest fall in the County infant death-rate was between 1905–1909 (23 per 1,000 births), followed closely by the war period (19 per 1,000). During the *ten* years since the termination of the war, the County rate has fallen 27 per 1,000 births.

The infant mortality rates of the urban and rural districts show the usual marked contrasts, and there are striking fluctuations. For example, in 1926, Rainford had a mortality rate of 171, this year (1927), it is 64; Blackrod had a rate of 152, now it is 81; Hindley, 138, now, 64. The rate in Leyland in 1926 was 19, now it is 114; and Huyton-with-Roby, which in the year under report has the highest district rate, viz., 176 per 1,000 births, had a rate of only 26 in 1926.

In 1 district in 1927 the rate was 176 and in 1 district 150 per 1,000 births.

In 15 districts the rate was between 100 and 150 per 1,000 births.

In 84 districts the rate was between 50 and 100 per 1,000 births.

In 15 districts the rate was under 50 per 1,000 births, and in 4 districts nil.

The highest infant death-rates in 1927 were in Huyton-with-Roby, 176 (9 deaths); Standish-with-Langtree, 150 (16 deaths); Trawden, 142 (5 deaths); Aspull, 128 (19 deaths); Tottington, 128 (10 deaths); Little Hulton, 115 (11 deaths); Colne (B), 114 (34 deaths); Leyland, 114 (15 deaths); and Haydock, 113 (25 deaths).

Extending over the last five years the districts with the heaviest infant mortality rates were: Trawden, 130; Ince-in-Makerfield, 125; Little Lever, 118; Standish-with-Langtree, 116; Blackrod, 115; Abram, 108; Croston, 106; and Aspull and Chadderton, each 105.

A low infant mortality in 1927 was recorded in Grange-over-Sands, Little Crosby, Preesall and Withnell, nil; Lees, 35; Lunesdale (R), 36; Clitheroe (B), and Mossley (B), each 38; Great Crosby, 39; and Carnforth and Formby, each 40 per 1,000 registered births.

Table 1, on page 12, gives the infant mortality for the Administrative County, distinguishing the urban and rural districts, for each year since 1889, and the tabular statement below shows the striking difference between the infant mortality of thirty years ago and to-day:—

Years.	INFANT MORTALITY.		
	Rate of Deaths under One Year.		Percentage of Infant Deaths to Total Deaths at all ages.
	Per 1,000 Births.	Per 1,000 of the Estimated Population.	
1897-1901	167	4.56	26.83
1902-1906	141	3.66	24.46
1907-1911	126	2.98	21.16
1912-1916	111	2.40	16.86
1917-1921	93	1.82	13.19
1922-1926	81	1.37	10.94
1927	73	1.06	8.39

GENERAL PROVISION OF HEALTH SERVICES IN THE COUNTY.

Hospital Accommodation.—SMALLPOX.—OTHER INFECTIOUS DISEASES.—Table 18, pages 106 to 119, shows the nature of the hospital accommodation, both for smallpox and other infectious diseases, provided in, or available for, each County sanitary district, and the table also gives for each district the number of cases removed to hospital in the year 1927, and the number of deaths in hospital.

Summarized, the position of the Administrative County as regards hospital accommodation for smallpox and other infectious diseases is shown in the following statement:—

No. of Districts with their own Hospital	For smallpox.		For infectious diseases other than smallpox.	
	...	19	...	21
„ using the hospitals of Joint Hospital Boards or Committees	...	50	...	44
„ using other hospitals within the Administrative County (i.e., belonging to other urban or rural authorities)	...	9	...	10
„ using hospitals not in the Administrative County (chiefly those belonging to County Boroughs)	36	...	...	39
„ without hospital accommodation	6	...	...	6

The districts stated to have no hospital accommodation available are as follow :—

For Smallpox :—
Ashton-in-Makerfield
Blackrod
Carnforth
Skelmersdale
Standish-with-Langtree
Upholland

For other Infectious Diseases :—
Billinge-and-Winstanley Norden
Great Harwood Clitheroe (R)
Mossley (B) Limehurst (R)

From a few of the above districts an odd case was admitted to a hospital belonging to some other authority.

The following changes during the year are reported in the local arrangements for hospital accommodation :—

Accrington (B), made an arrangement with the Blackburn Corporation for the isolation of cases of ordinary infectious disease in lieu of sending patients to the Bury joint hospital. Aspull, smallpox cases to be sent to the Bury joint hospital—formerly to Wigan (C.B.). Dalton-in-Furness, Ulverston and Ulverston (R); a joint arrangement now completed for 4 beds for smallpox cases at the Kendal joint hospital—formerly Barrow-in-Furness C.B. hospital available. Grange-over-Sands has also made an arrangement with Kendal. Lancaster (B), in consequence of the flooding of the existing hospital has decided to find another site, and to provide sufficient accommodation to meet the needs of the Borough, the rural district of Lancaster, the borough of Morecambe, and the urban districts of Carnforth and Heysham.

The whole question of hospital accommodation calls for careful consideration on broad lines. Some of the existing hospitals are efficient and well equipped, but many others are not altogether satisfactory either in situation, construction, or as regards the amount of accommodation available for the area served. In many instances the existing accommodation is not fully utilized. Co-operation between neighbouring authorities might be extended to obviate overcrowding in one hospital whilst there are empty beds in another.

Larger institutions, with modern equipment would, no doubt, prove to be more efficient and economical, and would permit of the employment of medical and nursing staffs with a high degree of specialised skill.

Very little information is given in the local reports in response to the Ministry's instruction that the reports should refer to any action taken or advised with the object of securing that the hospital accommodation available for cases of infectious disease is utilized to the best advantage, or as to action taken to shorten the period of stay of uncomplicated cases of scarlet fever, or to replace hospital treatment in suitable instances by nursing and supervision at home. In a few reports it is stated that cases of measles and whooping cough would be treated in hospital if there was available accommodation.

Contribution towards maintenance in hospital.—In most County districts no attempt is made to recover the cost of maintenance in hospital, but in 14 districts, it is stated, parents or other persons responsible, are invited to contribute according to their means.

REMOVAL OF CASES.—The following table gives the number and percentage of removals to hospital in 1927 of cases of smallpox, scarlet fever, diphtheria, and enteric fever, and contrasts the mortality of cases isolated in hospital with that of cases treated at home :—

		Total cases notified.	Hospital Treatment.			Home Treatment.		Case mortality per cent.	
			Cases removed to hospital.	Percentage of removals.	Deaths in hospital.	Cases treated at home.	Deaths at home.	In hospital.	At home.
Smallpox	...	190	188	98.9	—	2*	—	—	—
Scarlet Fever	...	3404	1705	50.0	9	1699	14	0.52	0.82
Diphtheria	...	1567	1076	68.6	62	491	47	5.76	9.57
Enteric Fever	...	133	88	66.1	12	45	14	13.63	31.10

* Missed cases. One death from smallpox occurred in a Workhouse—case not notified.

In the year 1926, the percentages of removals to hospital were : small-pox, 99 ; scarlet fever, 53.9 ; diphtheria, 66.4 ; and enteric fever, 40.8.

TUBERCULOSIS.—The Lancashire County Council, through the Tuberculosis Committee, has undertaken to provide a complete scheme for the treatment of tuberculosis for the inhabitants of the Administrative County Area. The following statement is supplied by Dr. G. Lissant Cox, the Central Tuberculosis Officer :—

Number of beds in sanatoria and hospitals occupied by County patients suffering from pulmonary and non-pulmonary tuberculosis, July, 1928 :—

	Pulmonary Tuberculosis.		Non-Pulmonary Tuberculosis.		Total.
	Adults.	Children.	Adults.	Children.	
Sanatoria for early and intermediate cases ...	292	6	2	...	300
Training Colonies	10	...	...	...	10
Pulmonary Hospitals for advanced cases requiring isolation or nursing	269	4	3	...	276
Children's Special Sanatoria and Hospitals ...	...	54	...	120	174
General Hospitals and Infirmaries for surgical cases	2	...	22	12	36
Special Hospitals for surgical cases	1	...	70	7	78
Special Hospital for tuberculous skin cases ...	...	...	2	...	2
Sanatoria and Hospitals taking observation cases	3	3	3	1	10
	577	67	102	140	886
	644		242		

MATERNITY BEDS.—In the section of this report on Maternity and Child Welfare, reference is made on pages 141 and 142 to the facilities provided for maternity cases in the County Council scheme, and by the local authorities who themselves undertake maternity and child welfare work.

CHILDREN.—The district reports state that hospital provision for children is available at Accrington (B), Ashton-under-Lyne (B), Chorley (B), Colne (B), Fleetwood, Lancaster (B), Leigh (B), Ramsbottom, Swinton and Pendlebury, Urnston, and Waterloo-with-Seaforth. Some other districts report that children are sent to general hospitals in other districts, or to Poor Law Institutions. The County Council arrangements for children are referred to on pages 38 and 153.

Institutional Provision for Unmarried Mothers, Illegitimate Infants, and Homeless Children.—Institutional accommodation for this class of case has been provided at Chorley (B) (West View), Heywood (B) (Simpson Hill), Kirkham (Cottage Homes), Lancaster (B) (Children's Home), and Waterloo-with-Seaforth (St. Mary's Home).

Maternity and Child Welfare Centres.—A list of the maternity and child welfare centres provided (a) by the County Council, and (b) by Local Sanitary Authorities, with the day and time they are open, is given on pages 146 and 151. Details as to the child welfare work carried out by the County Council Health Visitors are given on page 145.

Day Nurseries.—Day nurseries have been provided at Leyland (by the County Council) and at Morecambe (B) (managed voluntarily).

School Clinics—(A) BY COUNTY AUTHORITY ; (B) BY LOCAL AUTHORITIES.—(A) Medical treatment under the County scheme continues to expand. The development of treatment has progressed still further, and during the year additional Clinics have been opened at Ashton-in-Makerfield and Rishton for the treatment of minor ailments, defective eyesight, and teeth defects. Arrangements have also been made with the Burnley Victoria Hospital for the operative treatment of tonsils and adenoids and the treatment of defective vision and squint, and with the Leigh Borough Clinic for the operative treatment of tonsils and adenoids.

The policy of asking parents to contribute according to their means is still followed. Cases are first of all referred to their own doctor, who treats the case if satisfactory arrangements can be made. If no treatment has been obtained within a month, the case is then referred to the Clinic, when such is available, or to Hospital, as the case may be. A nominal sum is asked for each attendance at the Clinic, but in necessitous cases no charge is made. The consent, in writing, of a parent or guardian is obtained before treatment of any kind is given.

The following is a list of the School Clinics now open for treatment, the kind of work which is undertaken in each being shown :—

District.	Days and Times of Opening.		Nature of work undertaken.	Remarks.
Ashton-in-Makerfield	... Mon.	... 10 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
	Tues.	... 10 a.m. to 12 noon 2 p.m. to 4 p.m.	... Minor ailments ... Orthopædic	... Surgeon attends see d Tuesday in each moth only.
	Wed.	... 10 a.m. to 12 noon 10 a.m. to 12 noon 2 p.m. to 4 p.m.	... Ophthalmic ... Dental	...
	Thurs.	... 2 p.m. to 4 p.m.	... Minor Ailments	... Nurse only. Re-dressin.
	Fri.	... 10 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
Ashton-under-Lyne	Wed.	... 10 a.m. to 12 noon	... Orthopædic	... Surgeon attends fourth Vd- nesday in each moth only.
	Fri.	... 10 a.m. to 12 noon	... Orthopædic	... Nurse only.
Burnley	... Thurs.	... 2 p.m. to 4 p.m.	... Orthopædic	... Surgeon attends second Thursday in each moth only.
Chadderton	... Wed.	... 2 p.m. to 4 p.m.	... Orthopædic	... Surgeon attends fourth Vd- nesday in each moth only.
	Fri.	... 2 p.m. to 4 p.m.	... Orthopædic	... Nurse only.
Dalton-in-Furness	... Mon.	... 9-30 a.m. to 12 noon 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Minor ailments ... Dental	... Nurse only. Re-dressin.
	Tues.	... 9-30 a.m. to 12 noon 2 p.m. to 4 p.m. 2 p.m. to 4 p.m.	... Dental ... Orthopædic	... First Tuesday in each month only.
	Wed.	... 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
	Thurs.	... 9-30 a.m. to 12 noon 9-30 a.m. to 12 noon	... Dental ... Minor ailments	
	Fri.	... 10 a.m. to 12 noon 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Ophthalmic ... Dental	
Fleetwood	... Mon.	... 9-30 a.m. to 12 noon 2 p.m. to 4 p.m. 10-30 a.m. to 12-30 p.m. 2 p.m. to 4 p.m.	... Dental ... Orthopædic	... Nurse only.
	Tues.	... 9-30 a.m. to 12 noon	... Minor ailments	
	Wed.	... 9-30 a.m. to 12 noon 2 p.m. to 4 p.m. 10 a.m. to 12 noon	... Dental ... Ophthalmic	... Open alternate weeks dy.
	Thurs.	... 9-30 a.m. to 12 noon 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Minor ailments ... Dental	... Nurse only. Re-dressin.
	Fri.	... 10-30 a.m. to 12-30 p.m. 2 p.m. to 4 p.m.	... Orthopædic	... Surgeon attends third Fri- day in each month dy.
Great Crosby	... Tues.	... 10 a.m. to 12 noon	... Dental	
	Thurs.	... 10 a.m. to 12 noon	... Dental	
	Fri.	... 10 a.m. to 12 noon	... Dental	

District.	Days and Times of Opening.		Nature of work undertaken.	Remarks.
Haydock	... Mon.	... 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Minor ailments ... Dental	... Nurse only. Re-dressings.
	Tues.	... 10 a.m. to 12 noon 2 p.m. to 4 p.m.	... Orthopædie ... Dental	... Surgeon attends second Tuesday in each month only.
	Wed.	... 10 a.m. to 12 noon 2 p.m. to 4 p.m.	... Minor ailments ... Dental	
	Thurs.	... 10-30 a.m. to 12-30 p.m. 10-30 a.m. to 12-30 p.m.	... Ophthalmie ... Dental	... Open alternate weeks only. ... Open alternate weeks only.
	Fri.	... 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
Horwich	... Mon.	... 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Minor ailments ... Dental	... Nurse only. Re-dressings.
	Tues.	... 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
	Wed.	... 10 a.m. to 12 noon 10 a.m. to 12 noon	... Ophthalmie ... Orthopædie	... Open alternate weeks only. ... Surgeon attends first Wednesday in each month only. Nurse attends first and third Wednesday.
	Fri.	... 9-30 a.m. to 12 noon	... Minor ailments	
Irlam	... Mon.	... 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
	Tues.	... 9-30 a.m. to 12 noon	... Minor ailments	
	Wed.	... 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
	Thurs.	... 9-30 a.m. to 12 noon 9-30 a.m. to 12 noon 2 p.m. to 4 p.m. 2 p.m. to 4 p.m.	... Ophthalmie ... Dental ... Orthopædie	... Open alternate weeks only. ... Surgeon attends third Thursday in each month only.
	Fri.	... 9-30 a.m. to 12 noon	... Minor ailments	... Nurse only. Re-dressings.
Kearsley	... Mon.	... 10 a.m. to 12 noon 2 p.m. to 4 p.m.	... Ophthalmie ... Minor ailments	... Open alternate weeks only. ... Nurse only. Re-dressings.
	Tues.	... 9 a.m. to 12 noon 2 p.m. to 4 p.m. 10 a.m. to 12 noon.	... Dental ... Orthopædie	... Nurse only.
	Wed.	... 2 p.m. to 4 p.m.	... Orthopædie	... Surgeon attends first Wednesday in each month only.
	Thurs.	... 9 a.m. to 12 noon	... Minor ailments	
	Fri.	... 9 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
Lancaster	... Wed.	... 2 p.m. to 4 p.m.	... Orthopædie	... First Wednesday in each month only.
	Thurs.	... 10 a.m. to 12 noon	... Ophthalmie	... Open by arrangement when sufficient number of cases for treatment, usually monthly. Day changed to Monday during summer months.
Leyland	... Mon.	... 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Minor ailments ... Orthopædie	... Nurse only. Re-dressings. ... Surgeon attends first Monday in each month only.
	Tues.	... 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
	Wed.	... 9-30 a.m. to 12 noon	... Ophthalmie	... Open alternate weeks only.
	Thurs.	... 9-30 a.m. to 12 noon	... Minor ailments	
	Fri.	... 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	

District.	Days and Times of Opening.		Nature of work undertaken.	Remarks.
Litherland	... Mon.	... 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
	Tues.	... 10 a.m. to 12 noon 2 p.m. to 4 p.m.	... Minor ailments ... Dental	
	Wed.	... 9 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
	Thurs.	... 9-15 a.m. to 12-15 p.m. 10 a.m. to 12 noon 2 p.m. to 4 p.m.	... Ophthalmic ... Orthopædic ... Dental	... Nurse only.
	Fri.	... 9 a.m. to 10 a.m. 10 a.m. to 12 noon 2 p.m. to 4 p.m.	... Inspection ... Minor ailments ... Orthopædic	... Surgeon attends first Friday in each month only.
Littleborough	... Mon.	... 9 a.m. to 12 noon 10 a.m. to 12 noon 2 p.m. to 4 p.m.	... Minor ailments ... Dental	... Nurse only. Re-dressings
	Wed.	... 10 a.m. to 12 noon	... Ophthalmic	... Open alternate weeks only
	Thurs.	... 9 a.m. to 12 noon	... Minor ailments	
	Fri.	... 10 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
Nelson	... Fri.	... 2 p.m. to 4 p.m.	... Orthopædic	... Surgeon attends third Friday in each month only
Ormskirk (A)	... Mon.	... 10 a.m. to 12 noon	... Minor ailments	... Open alternate weeks only (Re-dressings by Hospital Staff each day).
	Fri.	... 9 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
Ormskirk (B)	... Wed.	... 10 a.m. to 12 noon	... Orthopædic	... Surgeon attends fourth Wednesday in each month only.
Preseot	... Mon.	... 9 a.m. to 12 noon 9 a.m. to 12 noon	... Dental ... Minor ailments	... Nurse only. Re-dressing
	Tues.	... 9 a.m. to 12 noon	... Dental	
	Wed.	... 9 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental ... Ophthalmic	... Open alternate weeks only
	Thurs.	... 9 a.m. to 12 noon	... Minor ailments	
	Fri.	... 10 a.m. to 12 noon	... Orthopædic	... Surgeon attends first Friday in each month only Nurse attends each Friday, except third Friday
Preston	... Wed.	... 2 p.m. to 4 p.m.	... Orthopædic	... Surgeon attends fourth Wednesday in each month.
Ramsbottom	... Mon.	... 9 a.m. to 12 noon	... Minor ailments	... Nurse only. Re-dressing
	Tues.	... 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
	Wed.	... 9 a.m. to 12 noon	... Minor ailments	
	Fri.	... 10 a.m. to 12 noon 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Ophthalmic ... Dental	... Open alternate weeks only

District.	Days and Times of Opening.		Nature of work undertaken.	Remarks.
Rishton	... Mon.	... 9-30 a.m. to 12 noon 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Minor ailments ... Dental	... Nurse only. Re-dressings.
	Tues.	... 10 a.m. to 12 noon 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Ophthalmic ... Dental ...	... Open alternate weeks only.
	Wed.	... 9-30 a.m. to 12 noon 2 p.m. to 4 p.m. 2 p.m. to 4 p.m.	... Dental Orthopædic	... ... Surgeon attends fourth Wednesday in each month only.
	Fri.	... 9-30 a.m. to 12 noon 9-30 a.m. to 12 noon 2 p.m. to 4 p.m.	... Minor ailments ... Dental	
Royton	... Tues.	... 9 a.m. to 12 noon 9 a.m. to 12 noon 2 p.m. to 4 p.m.	... Minor ailments ... Dental	
	Wed.	... 9 a.m. to 12 noon 2 p.m. to 4 p.m. 10 a.m. to 12 noon	... Dental Ophthalmic	... Open alternate weeks only.
	Thurs.	... 10 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
	Fri.	... 9 a.m. to 12 noon	... Minor ailments	... Nurse only. Re-dressings.
Skelmersdale	... Wed.	... 10 a.m. to 12 noon	... Inspection	
Tyldesley	... Mon.	... 10 a.m. to 12 noon 2 p.m. to 4 p.m.	... Ophthalmic ... Orthopædic	... Open alternate weeks only. ... Nurse only.
	Tues.	... 9 a.m. to 12 noon 10 a.m. to 12 noon 2 p.m. to 4 p.m.	... Minor ailments ... Dental	
	Wed.	... 10 a.m. to 12 noon	... Orthopædic	... Surgeon attends second Wednesday in each month only.
	Thurs.	... 10 a.m. to 12 noon 2 p.m. to 4 p.m. 2 p.m. to 4 p.m.	... Dental Minor ailments	... Nurse only. Re-dressings.
Vesthoughton	... Mon.	... 9 a.m. to 12 noon 9 a.m. to 12 noon	... Dental ... Minor ailments	
	Wed.	... 9 a.m. to 12 noon 2 p.m. to 4 p.m. 10 a.m. to 12 noon	... Dental Ophthalmic	... Open every fourth Wednesday only.
		2 p.m. to 4 p.m.	... Minor ailments	... Nurse only. Re-dressings.
	Thurs.	... 9 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
	Fri.	... 9 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
Whitefield	... Mon.	... 9 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
	Tues.	... 9 a.m. to 12 noon	... Minor ailments	
	Wed.	... 9 a.m. to 12 noon 2 p.m. to 4 p.m.	... Dental	
	Thurs.	... 9 a.m. to 12 noon 2 p.m. to 4 p.m. 10 a.m. to 12 noon	... Dental Orthopædic	... Surgeon attends third Thursday in each month only.
	Fri.	... 9 a.m. to 12 noon 2 p.m. to 4 p.m.	... Ophthalmic ... Minor ailments	... Open alternate weeks only. ... Nurse only. Re-dressings.
Vigan	... Mon.	... 10 a.m. to 12 noon	... Orthopædic	... Surgeon attends first Monday in each month only.

Arrangements have been made with the following Hospitals for the treatment of specified classes of defect, those marked with an asterisk being new arrangements made during the year :—

Ancoats Hospital, Manchester	...	...	Tonsils and adenoids.
Ashton-under-Lyne Infirmary	...	...	Tonsils and adenoids; eye defects; X-ray treatment of ringworm.
Blackburn Infirmary	...	...	Do.
Bolton Infirmary	...	...	Do.
Bury Infirmary	...	...	Do.
*Burnley Victoria Hospital	...	...	Tonsils and adenoids; eye defects.
Hartley Hospital, Colne	...	...	Do.
*Leigh Borough Clinic	...	...	Tonsils and adenoids.
Myrtle Street Hospital, Liverpool	...	...	Tonsils and adenoids; eye defects.
Oldham Infirmary	...	...	Tonsils and adenoids; eye defects; X-ray treatment of ringworm.
Ormskirk Cottage Hospital	...	...	Tonsils and adenoids; eye defects.
Peasley Cross Hospital, St. Helens	...	...	Do.
Preston Infirmary	...	...	Tonsils and adenoids; eye defects; X-ray treatment of ringworm.
St. Paul's Hospital, Liverpool	...	...	Eye defects.
Ulverston Cottage Hospital	...	...	Tonsils and adenoids.
Warrington Infirmary	...	...	Tonsils and adenoids; eye defects.
Wigan Infirmary	...	...	Tonsils and adenoids.
Ethel Hedley Orthopædic Hospital, Windermere	...	...	Crippling defects.
Home for Crippled Children, Bamford, near Rochdale	...	...	Do.
Ancoats Hospital, Manchester	...	...	Do.
Myrtle Street Children's Hospital, Liverpool	...	...	Do.
Liverpool Children's Hospital, Heswall	...	...	Do.

MINOR AILMENTS.

These include such defects as running ears, external eye diseases, skin diseases, &c., and treatment for them is available for approximately 43,000 children, additional provision having been made in Ashton-in-Makerfield.

TONSILS AND ADENOIDS.

The operative treatment for tonsils and adenoids is undertaken, not at the School Clinics, but only in Hospitals, where skilled operative treatment can be given by an expert surgeon, and the case can be nursed until fit for discharge. This treatment is available for a school population of about 105,000 children. During the year the number of children who received operative treatment for this condition was 1,271, of whom 1,015 were treated under the County scheme.

TUBERCULOSIS.

The treatment of tuberculous school children is in the hands of the Tuberculosis Committee of the Lancashire County Council, and all cases for treatment are referred to the Tuberculosis Officer for the area concerned.

VISION.

The treatment of defects of vision is undertaken either in the Eye Departments of General Hospitals or in the Eye Departments of the County's own Clinics. In the former case it is undertaken by the Specialist Staff of the Hospital; in the latter case by part-time Visiting Specialists. Arrangements have been made with the following Hospitals :—Ashton-under-Lyne, Blackburn, Bolton, Burnley, Bury, Colne, Oldham, Ormskirk, Preston, St. Helens, Warrington, Liverpool Myrtle Street Eye and Ear Hospital, and St. Paul's Eye Hospital.

Visiting Specialists attend at the School Clinics in Dalton-in-Furness, Fleetwood, Haydock, Horwich, Irlam, Kearsley, Lancaster, Litherland, Leyland, Littleborough, Prescott, Rishton, Royton, Ramsbottom, Tyldesley, Whitefield, and Westhoughton.

The number of children for whom Specialist eye treatment is available is approximately 120,000. The number of children who received treatment for defective vision or squint was 4,922 of whom 4,165 were dealt with under the County scheme.

Arrangements have also been made with certain firms of opticians, in connection with each Ophthalmic Clinic or Hospital, to supply spectacles at a low fixed charge. In necessitous cases the charge is reduced or remitted altogether. The number of children who either purchased or received free spectacles under this scheme was 2,379.

In one area a local charity has arranged for the treatment of visual defect in Elementary School children, and provides spectacles free of charge to every child requiring them.

DENTAL DEFECTS.

The dental staff now consists of ten full-time and one part-time dental surgeon, each assisted by a nurse or dental attendant. Dental Clinics have been established in Ashton-in-Makerfield, Dalton-in-Furness, Fleetwood, Great Crosby, Haydock, Horwich, Kearsley, Irlam, Leyland, Litherland, Littleborough, Ormskirk, Prescott, Ramsbottom, Rishton, Royton, Tyldesley, West-houghton and Whitefield.

These Clinics serve schools with an average attendance of 38,000 children. The number of children who received treatment during the year was 15,778.

As it is impossible, owing to the large number requiring treatment, to attend to all children, the energies of the dentists are concentrated on the younger groups of children during the eruption of the first permanent teeth.

Apart from this routine work, the dentists treat the following classes :—

- (a) Expectant and Nursing Mothers, on the recommendation of the Medical Officers ;
- (b) Children under school age, similarly ;
- (c) Casuals.

Casuals are of three classes :—

- (a) Urgent cases, e.g. toothache, dental abscess ;
- (b) Cases where the mouth has to be put into a clean condition previous to operation for tonsils and adenoids ;
- (c) Cases in which the Medical Officer requests that dental treatment should be given for some other medical reason, e.g., anæmia.

(B) Outside the area of the Administrative County for Elementary Education, i.e., the County School Medical area, there are 19 Non-County Boroughs, and the following eight Urban Districts : Chadderton, Farnworth, Hindley, Ince-in-Makerfield, Radcliffe, Stretford, Swinton and Pendlebury, and Waterloo-with-Seaforth. In each of these areas, with the exception of Morecambe (B), a School Clinic has been established. At Morecambe (B) building operations are in progress.

Tuberculosis Dispensaries.—Five “Chief” and 19 “Branch” dispensaries have been established by the County Tuberculosis Committee, the dispensary areas covering the whole of the Administrative County. Details as to the situation of the premises, the medical and nursing staff, days and hours of sessions, &c., are given in Dr. Cox’s Annual Report.

Venereal Diseases Treatment Centres.—Particulars of the County Council scheme for the diagnosis and treatment of venereal diseases and a list of the Treatment Centres are given on pages 134 to 138.

Ambulance Facilities.—In almost every County district ambulance facilities are available both for infectious cases and for non-infectious and accident cases, as will be seen below :—

			For infectious cases— No. of Districts.		For non- infectious and accident cases— No. of Districts.
Motor Vehicle	...	...	95	...	107
Horse	„	...	20	...	5
Hand Appliance	...	...	—	...	2
Nil	...	...	5	...	6

PUBLIC HEALTH OFFICERS OF THE COUNTY AND OF LOCAL AUTHORITIES.

COUNTY STAFF.

(Jointly with the School Medical and Child Welfare Department).

County Medical Officer of Health and School Medical Officer :

J. J. BUTTERWORTH, M.D., Ch.B., D.P.H.

Chief Assistant County Medical Officers :

J. FERGUSON, B.A., M.B., Ch.B., D.P.H.

R. H. W. FISHER, M.A., M.R.C.S., L.R.C.P., D.P.H.

Assistant County Medical Officers :

L. E. H. R. BARKER, B.A., M.B., Ch.B., D.P.H.

R. J. BATTY, B.Sc., M.B., Ch.B., D.P.H.

CATHERINE L. CORBETT, M.B., Ch.B., D.P.H.

A. C. CRAWFORD, M.B., Ch.B., D.P.H., D.T.M.

H. L. CRONK, M.A., M.D., Ch.B., M.R.C.S.,
L.R.C.P., D.P.H.R. M. GALLOWAY, M.D., Ch.B., M.R.C.S.,
L.R.C.P., D.P.H.WINNIEFRED M. GRAY, M.A., M.B., Ch.B.,
D.P.H.

F. HALL, M.D., Ch.B., D.P.H., B.L.

H. HOLROYD, M.B., B.S., D.P.H.

GLADYS H. HUTCHINSON, M.B., Ch.B.

J. R. JAGGER, M.B., Ch.B., D.P.H.

G. G. JOHNSTONE, M.C., M.A., M.D., Ch.B.,
D.P.H.J. H. PORTER, M.A., M.B., Ch.B., M.R.C.S.,
L.R.C.P., D.P.H.E. H. SCHOLEFIELD, M.A., M.B., Ch.B.,
M.R.C.S., L.R.C.P., D.P.H.

J. A. TOMB, M.B., Ch.B., D.P.H.

A. TOPPING, M.A., M.D., Ch.B., D.P.H.

G. G. WRAY, M.D., Ch.B., D.P.H.

S. N. WRIGHT, M.Sc., M.B., Ch.B., D.P.H.

Dental Surgeons:

R. E. HODGSON, L.D.S.

H. B. IVERS, M.C., L.D.S.

J. KERSHAW, L.M.S.S.A., L.D.S.

W. A. LINNELL, L.D.S.

T. G. LLOYD, L.D.S.

I. F. McASH, L.R.C.P., L.R.C.S., L.D.S.

G. G. MACPHEE, M.A., M.B., Ch.B., L.D.S.

F. D. MANNERS, L.D.S.

E. V. POLLITT, L.D.S.

T. H. WIGNALL, L.D.S.

A. CLEAVER, L.D.S. (part-time).

Ophthalmic Surgeons (part-time) :

E. ALLAN, M.B., Ch.B.

H. H. BYWATER, M.D., Ch.B., D.Ch.O.,
F.R.C.S.G. A. JELLY, F.R.C.S., L.R.C.P., L.S.A.,
D.P.H.

N. MacINNES, M.A., M.B., Ch.B.

H. G. PARKER, F.R.C.S., L.R.C.P., L.R.F.P.S.

J. F. PENMAN, M.B., Ch.B.

F. C. PLUMMER, M.D. Ch.B.

G. A. RENWICK, M.B., Ch.M.

W. SYKES, L.R.C.P., L.R.C.S., L.R.F.P.S.

J. M. WISHART, M.B., Ch.B., F.R.C.S.

Honorary Consulting Orthopædic Surgeon :

SIR ROBERT JONES, Bart., K.B.E., C.B., F.R.C.S., LL.D., D.Sc.

Orthopædic Surgeons (part-time) :

H. PLATT, M.D., M.S., F.R.C.S.

T. P. McMURRAY, M.Ch., F.R.C.S.

Junior Orthopædic Surgeons (part-time) :

E. S. BRENTNALL, M.B., F.R.C.S.

S. M. MILNER, M.A., M.B., F.R.C.S.

B. L. McFARLAND, M.D., F.R.C.S., M.Ch.

H. POSTON, M.B., M.Ch.

County Sanitary Officers :

A. T. EGINTON, F.S.I. (Chief).

G. W. MASON.

R. KEELEY.

J. MERCER.

Principal Clerk, and County Inspector, Shops Acts :

J. E. GEE.

County Inspector of Midwives :

Miss E. J. B. WRIGHT.

Organiser and Lecturer under Venereal Diseases Scheme

(In co-operation with the British Social Hygiene Council):

Miss M. M. TIPPER.

30 Veterinary Surgeons (part-time)

(For purposes of the Milk and Dairies Act).

59 School Nurses and Health Visitors.**3 Orthopædic Nurses.****County Analyst :**

G. D. ELSDON, B.Sc., F.I.C.

PUBLIC HEALTH OFFICERS OF LOCAL AUTHORITIES.

URBAN DISTRICT.	Public Health Officers.	URBAN DISTRICT.	Public Health Officers.
Abram	M.O. A. R. Erskine. S.I. W. H. Roby. S.I. H. Allen.	Croston	M.O. A. Duckworth. S.I. T. W. Noblet.
Aeerington (B) ...	M.O. A. Greenhalgh. S.I. J. A. Hindle. S.I. J. E. Spence. H.V. 4.	Dalton-in-Furness ...	M.O. G. H. Patterson (whole time with Grange, Ulverston, and Ulver- ston R). S.I. W. E. Caine.
Adlington	M.O. W. C. Rigby. S.I. T. Warwick (R. Edge to 31st March, 1927).	Darwen (B)	M.O. J. Robertson (whole time). S.I. C. R. Walsh. S.I. W. E. Marsden. H.V. 2.
Ashton-in-Makerfield	M.O. H. Winstanley. S.I. D. Gamble. S.I. T. Whitter. H.V. 1.	Denton	M.O. W. Stewart. S.I. A. C. Brocklehurst. H.V. 1.
Ashton-under-Lyne (B)	M.O. J. W. Talent S.I. W. C. Morris. S.I. C. Sharples. H.V. 3.	Droylsden	M.O. A. W. Laing. S.I. F. Schofield.
Aspull	M.O. L. Cooke. S.I. J. Eccleshaw.	Eccles (B)	M.O. J. E. Spence (whole time). S.I. C. W. Laskey. S.I. G. V. Hulse. S.I. T. P. Hardman. S.I. H. R. Taylor. H.V. 5.
Atherton	M.O. W. H. Leigh (J. Marsh. to 30th April, 1928). S.I. F. Markland. H.V. 1.	Failsworth	M.O. G. B. Brown. S.I. J. A. James. H.V. 1.
Audenshaw	M.O. A. Sutherland (Acting) (W. R. Judd to March 1928). S.I. H. M. Doxey.	Farnworth	M.O. A. G. Glass (whole time with Kearsley). S.I. J. Marshall. S.I. H. T. Ogden. S.I. S. Seel. H.V. 2.
Bacup (B)	M.O. J. P. Brown. S.I. A. E. Barnes. H.V. 2.	Fleetwood	M.O. J. Colgan. S.I. G. Pilkington. S.I. I. N. Creear.
Barrowford	M.O. R. G. Markham (whole time with Nelson (B)). S.I. T. C. Slack.	Formby	M.O. F. Carter. S.I. J. Hodge
Billinge-and-Winstanley	M.O. R. O. Mather. S.I. J. J. Perkins.	Fulwood	M.O. C. J. Trimble. S.I. F. Higginson.
Blackrod	M.O. J. W. Unsworth. S.I. J. Moore.	Golborne	M.O. J. Bennett. S.I. J. Ford. H.V. 1.
Brierfield	M.O. J. S. Wilson. S.I. W. D. Haigh. H.V. 1.	Grange-over-Sands ...	M.O. G. H. Patterson (whole time with Dalton, Ulverston, and Ulver- ston R). S.I. T. Huddlestone.
Carnforth	M.O. E. S. Jackson. S.I. F. Holt.	Great Crosby	M.O. A. J. W. Cunningham (J. Huskie to 29th February, 1928). S.I. J. Almond.
Chadderton	M.O. J. Wood (whole time). S.I. A. Ashworth. S.I. H. Prenton. H.V. 2.	Great Harwood	M.O. J. K. Cumming. S.I. A. Eddleston. H.V. 1.
Chorley (B)	M.O. H. E. Middlebrooke (whole time). S.I. W. Heaps. S.I. R. P. B. Lund. H.V. 2.	Haslingden (B)	M.O. A. Bremner. S.I. R. Austin. S.I. A. Warburton. H.V. 1.
Church	M.O. F. W. Pare. S.I. F. Howarth.	Haydock	M.O. A. Dowling. S.I. J. Evans.
Clayton-le-Moors ...	M.O. L. Tattersall. S.I. J. H. Bridge.	Heysham	M.O. R. Herd. S.I. H. Miller. S.I. K. H. Docton.
Clitheroe (B)	M.O. W. E. Barker. S.I. J. Bolton. H.V. 1.		
Colne (B)	M.O. W. Doyle (whole time.) S.I. A. Fortune (H. Barrett to 31st Oct., 1927). H.V. 1.		
Crompton	M.O. K. D. Murchison S.I. F. Taylor.		

PUBLIC HEALTH OFFICERS OF LOCAL AUTHORITIES—*continued.*

URBAN DISTRICT.	Public Health Officers.	URBAN DISTRICT.	Public Health Officers.
Heywood (B) ...	M.O. F. W. C. Brown (whole time). S.I. J. E. Cropper. H.V. 3.	Middleton (B) ...	M.O. S. T. Beggs (whole time). S.I. C. H. Norton. S.I. T. Turner H.V. 3.
Hindley ...	M.O. R. K. Nisbet (whole time). S.I. T. France. H.V. 1.	Milnrow ...	M.O. C. B. P. Spencer. S.I. T. Warrington.
Horwich ...	M.O. J. S. Sewell. S.I. J. H. Brocklehurst. H.V. 2.	Morecambe (B) ...	M.O. J. W. Watterson. S.I. H. B. Lamb (to 8th Oct., 1927). S.I. H. Morgans.
Huyton-with-Roby ...	M.O. A. W. McDonald. S.I. R. J. Pritchard.	Mossley (B) ...	M.O. J. Healey. S.I. E. Slater. S.I. B. Castle. H.V. 1.
Ince-in-Makerfield ...	M.O. G. H. Potter. S.I. W. Thorpe. H.V. 2.	Nelson (B) ...	M.O. R. G. Markham (whole time with Barrowford). S.I. J. W. Ingham. S.I. S. Grindrod. S.I. S. Haydock. H.V. 2.
Irlam ...	M.O. J. W. Roberts. S.I. R. Rutter.	Newton-in-Makerfield	M.O. H. E. Watkins. S.I. H. Ashcroft. H.V. 1.
Kearsley ...	M.O. A. G. Glass (whole time with Farnworth). S.I. E. Shaw.	Norden ...	M.O. W. H. Bateman. S.I. J. H. Crosby.
Kirkham ...	M.O. C. Court. S.I. J. R. Holmes.	Ormskirk ...	M.O. J. Young. S.I. H. W. Chadwick.
Lancaster (B)...	M.O. J. D. Buchanan (whole time). S.I. F. W. Smith. S.I. H. Scholefield. S.I. G. Grieve. H.V. 4.	Orrell ...	M.O. K. Fraser. S.I. J. Farrimond. H.V. 1.
Lathom and Burscough	M.O. A. Speight. S.I. T. Burrows.	Oswaldtwistle ...	M.O. A. E. Townley. S.I. P. J. Fisher. H.V. 1.
Lees ...	M.O. J. Currie. S.I. Harold Boardman (J. W. Liversage to 5th Oct., 1927).	Padiham ...	M.O. J. W. J. Forsythe. S.I. G. Egner. H.V. 1 (to 1st October, 1927).
Leigh (B) ...	M.O. J. C. Beckitt (whole time). S.I. E. Jackson. S.I. W. T. Frost. S.I. A. N. Nicklin. H.V. 5.	Poulton-le-Fylde ...	M.O. J. K. Thomas (W. A. Riddell to 30th June, 1927). S.I. P. A. Watford (G. K. Taylor to 30th June, 1927).
Leyland ...	M.O. C. M. Willmott. S.I. H. Cheetham.	Precsall ...	M.O. S. A. Nield-Faulkner. S.I. H. Turner (F. Rodwell to 31st Aug., 1927).
Litherland ...	M.O. T. D. Williams. S.I. H. W. Monks.	Prescot ...	M.O. S. M. Green. S.I. J. E. Hart.
Littleborough...	M.O. J. T. R. MacGill. S.I. H. E. Williamson.	Prestwich ...	M.O. H. C. Burbidge. S.I. W. Windsor. H.V. 1.
Little Crosby ...	M.O. A. J. W. Cunningham. S.I. T. Massam.	Radcliffe ...	M.O. W. S. Haydock (whole time). S.I. W. Holt. H.V. 2.
Little Hulton ...	M.O. J. H. Marsh. S.I. J. T. Davies.	Rainford ...	M.O. F. Prosser. S.I. E. S. Rosbotham.
Little Lever ...	M.O. W. Mottershead. S.I. G. R. Butler (C. L. Gregson to 30th Sept., 1927).	Ramsbottom ...	M.O. H. Lawrie. S.I. G. A. Shaw. H.V. 1.
Longridge ...	M.O. G. Jukes. S.I. J. Marshall.	Rawtenstall (B) ...	M.O. J. E. Helm. S.I. W. E. Hoyle. H.V. 2.
Lytham Saint Anne's(B)	M.O. J. P. Litt (whole time). S.I. H. Yates. S.I. F. Haworth. H.V. 2.	Rishton ...	M.O. J. Barr. S.I. J. C. Almond.
		Royton ...	M.O. W. L. Bentley. S.I. J. Butterfield. H.V. 1.

PUBLIC HEALTH OFFICERS OF LOCAL AUTHORITIES—*continued.*

URBAN DISTRICT.	Public Health Officers.	URBAN DISTRICT.	Public Health Officers.
Skelmersdale	M.O. H. E. Marsden (V. O'Reilly to 11th June, 1928). S.I. E. Huntington.	Withnell	M.O. T. P. Leighton. S.I. A. Penney.
Standish-with-Langtree	M.O. G. H. Ormsby. S.I. C. L. Gregson (A. Clough to 31st July, 1927).	Worsley	M.O. T. E. Kavanagh, (R. Sayers to 6th May, 1927). S.I. W. Allen.
Stretford	M.O. E. H. Walker (whole time). S.I. S. Massey. S.I. R. C. Jackson. S.I. T. E. Bowker. S.I. H. Wrigley. S.I. A. Schofield. S.I. Miss McGarvie. H.V. 3.	RURAL DISTRICT.	
Swinton and Pendlebury	M.O. H. C. Mulholland (whole time). S.I. A. Bleakley. S.I. P. E. Berry. S.I. G. E. Taylor. S.I. L. A. Marshall. S.I. A. S. Kershaw. H.V. 2.	Barton-upon-Irwell ...	M.O. D. W. Davidson. S.I. R. G. Child.
Thornton Cleveleys ...	M.O. F. S. Rhodes. S.I. H. Fenton.	Blackburn	M.O. C. M. Bradley. S.I. H. Eccleston.
Tottington	M.O. G. Crawshaw (G. Bailey to 31st Dec., 1927). S.I. L. Kenyon. S.I. J. F. Moyse (part time).	Burnley	M.O. H. J. Robinson. S.I. A. Johnson.
Trawden	M.O. G. Skeen. S.I. J. H. Tatham.	Bury	M.O. J. W. Cook. S.I. H. Hurst.
Turton	M.O. H. Robinson. S.I. A. McMorrine.	Chorley	M.O. J. Rigby. S.I. H. F. Froes. S.I. A. Fowler.
Tyldesley-with Shakerley	M.O. T. E. Fliteroft (A. J. Lowe to 13th April, 1928). S.I. J. Smith. H.V. 1.	Clitheroe	M.O. J. M. Postlethwaite. S.I. W. H. Jackson.
Ulverston	M.O. G. H. Patterson (whole time with Dalton, Grange, and Ulver- ston R). S.I. C. T. Hague.	Fylde	M.O. C. Court. S.I. F. S. Roseoe.
Upholland	M.O. F. H. Browne. S.I. A. Hunt. H.V. 1.	Garstang	M.O. W. L. Armstrong (to 15th Aug., 1928). S.I. J. Cook. S.I. J. B. Cook.
Urnston	M.O. G. E. Fryer. S.I. J. Heath. S.I. F. H. Rebbeck.	Lancaster	M.O. W. Edmondson. S.I. J. Littlefair.
Walton-le-Dale ...	M.O. C. J. Trimble. S.I. N. Baron.	Leigh	M.O. S. H. Ryan. S.I. J. Monks.
Wardle	M.O. D. G. MacGill. S.I. T. A. Noble (to 31st Mar., 1928). S.I. A. Stewart.	Limehurst	M.O. G. F. Bowman. S.I. R. Thompson.
Waterloo-with-Seaforth	M.O. V. J. Glover. S.I. J. H. Cannell. S.I. A. E. Jones. H.V. 1.	Lunesdale	M.O. B. J. Acheson. S.I. E. Ellis.
Westhoughton ...	M.O. W. H. Leigh. S.I. F. J. A. Green. H.V. 2.	Preston	M.O. C. J. Trimble. S.I. T. Asheroft (to 22nd June, 1927). S.I. T. Asheroft, Jr. S.I. H. Collier.
Whitefield	M.O. A. J. Young. S.I. R. C. Foster.	Sefton	M.O. A. J. W. Cunningham S.I. F. Pool.
Whitworth	M.O. T. J. L. Forbes. S.I. J. J. Cordingley.	Ulverston	M.O. G. H. Patterson (whole time with Dalton, Grange, and Ulver- ston U.D.) S.I. T. Hudson. S.I. J. F. A. Ellwood.
Widnes (B)	M.O. A. Jones (whole time). S.I. W. Lowe (to 30th June, 1927). S.I. J. G. Maedonald. S.I. C. A. Pennington. S.I. E. F. Starkey. H.V. 7.	Warrington	M.O. J. Bennett. S.I. F. W. Kerfoot.
		West Lancashire ...	M.O. H. E. Marsden. S.I. T. G. H. Hunter. S.I. J. Ainsworth.
		Whiston	M.O. T. U. Mercer. S.I. W. H. Bone. S.I. C. Hitchen.
		Wigan	M.O. G. H. Ormsby. S.I. F. H. Williams (P. Fairclough to 7th May, 1927).

PAYMENTS TOWARDS SALARIES OF PUBLIC HEALTH OFFICERS.—From the Exchequer Contribution Account payments towards the salaries of public health officials are made by the County Council, under Section 24 of the Local Government Act, 1888, to the Councils of 18 boroughs, 81 urban districts, 19 rural districts, and two port sanitary districts. The total payments during the financial year ended March 31st, 1928, amounted to £24,839 16s. 5d., of which £9,257 19s. 9d. was in respect of Medical Officers of Health, and £15,581 16s. 8d. for Sanitary Inspectors.

Contributions towards the salaries of Medical Officers of Health and Sanitary Inspectors are made out of the Exchequer Grants to all districts except Church, Clitheroe (B), Morecambe (B) and Stretford for the Medical Officers of Health, and Ashton-under-Lyne (B), Clitheroe (B), Lees, Little Crosby, Mossley (B), Stretford, Trawden and Upholland for the Sanitary Inspectors. No grants are payable in respect of Assistant Sanitary Inspectors.

VETERINARY OFFICERS.—The part-time services of veterinary surgeons are available, by arrangement, for the inspection of dairy cows, &c., in Accrington (B), Ashton-under-Lyne (B), Atherton, Chorley (B), Colne (B), Eccles (B), Farnworth, Lancaster (B), Leigh (B), Lytham St Anne's (B), Middleton (B), Morecambe (B), Nelson (B), Prestwich, Royton, Swinton and Pendlebury, Trawden, Whitefield, and Widnes (B).

For the purposes of the Milk and Dairies (Consolidation) Act, 1915, in connection with the inspection of cattle in cases where tubercle bacilli have been found in milk, the County Council employ, as required, 30 Veterinary Surgeons resident in all parts of the County area. The Veterinary Inspectors are also employed by the County Council for the purposes of the Diseases of Animals Acts.

Professional Nursing in the Home.—(A) GENERAL. (B) FOR INFECTIOUS DISEASES.—(1) From the replies given by local Medical Officers of Health to the Ministry's queries respecting nursing in the homes, it appears that in about 76 County districts facilities for "general nursing" are available, provided in the majority of instances by nursing associations or local voluntary organisations. (B).—For the nursing of cases of infectious disease, e.g. measles, pneumonia, &c., there is co-ordination between the Local Authority and the District Nursing Association, or other voluntary organisation in Accrington (B) (measles), Ashton-in-Makerfield (measles), Ashton-under-Lyne (B) (measles and pneumonia), Bacup (B), Chadderton (pneumonia), Chorley (B), Darwen (B) (puerperal fever, pneumonia, ophthalmia, &c.), Lancaster (B) (measles, &c.), Middleton (B) (pneumonia), Nelson (B) (measles, puerperal fever and ophthalmia), Orrell, Oswaldtwistle (measles, whooping cough, ophthalmia, &c.), Rawtenstall (B), Widnes (B) (measles and whooping cough).

District Nursing Associations function in about 95 districts, and these employ about 17 nurses. Some of the reports give the amount of the Local Authorities' contributions to the District Nursing Associations. These include Ashton-under-Lyne (B), £50; Chorley (B), £20, Darwen (B), £10 10s. and 1s. per visit; Lancaster (B), £60; Little Lever, £10; Middleton (B), £10; Nelson (B), £10 and 1s. per visit in measles cases; Oswaldtwistle, £10; Radcliffe, £10 10s.; Rawtenstall (B), 4d. per visit in diseases of children under 5 years' of age, &c.; Widnes (B) £50.

In 56 districts, it is stated, the local authorities contribute to voluntary hospitals.

Midwives.—No local authority, apart from the County Council, employs or subsidises a practising midwife. The number of midwives practising in the County area at the end of the year 1927 was 768. The work carried out by the County Council under the Midwives Acts is detailed on pages 138 to 142.

Chemical Work.—The County Council Laboratory is situated in Liverpool. Extracts from the annual report of the County Analyst, giving particulars of the work done under the Sale of Food and Drugs Acts, and other Acts and Regulations, are printed on pages 95 to 105.

Legislation in Force.—The district health reports contain lists of special Local Acts and Local Orders, and of the byelaws relating to public health.

SANITARY CIRCUMSTANCES IN THE COUNTY.

Water.—The Administrative County area, particularly the populous portion, is, on the whole, well supplied with a constant, plentiful, and pure water supply. There are, however, outlying portions of urban districts, and parishes, or parts of parishes in rural districts where the supply is unsatisfactory or inadequate. In some of these areas access to public supplies is difficult, and taking into consideration the financial problem, almost impracticable.

Table 6 shows the source of the water supply to each sanitary district, the number of dwelling-houses supplied direct from the mains, or from stand pipes :—

TABLE 6—WATER SUPPLY.

DISTRICT.	SOURCES AND QUALITY.	APPROXIMATE NUMBER OF HOUSES SUPPLIED.	
		DIRECT.	BY STANDPIPE.
URBAN.			
Abram	Liverpool	1396	...
Accrington (B)	Dean Clough, Mitchell House, and Burnley Road Reservoirs ; also deep well.	11851	...
Adlington	Blackrod. Horwich Moors ...	All.	...
Ashton-in-Makerfield ...	Own works and 100,000 gals. daily from Rivington.	4194	4
Ashton-under-Lyne (B) ...	Ashton-under-Lyne, &c. Waterworks Joint Committee. Excellent	All.	...
Aspull	Bolton. Good	1667	...
Atherton	Manchester and Bolton. Good ...	4533	...
Audenshaw	Ashton-under-Lyne, &c. Waterworks Joint Committee. Good.	2100	...
Bacup (B)	Moorland. Good	4808	...
Barrowford	Nelson	1538	...
Billinge-and-Winstanley ...	Old Quarry Workings. Good ; hard.	980	...
Blackrod	Own Waterworks. Good ...	840	...
Brierfield	Nelson. Constant	2369	...
Barnforth	Reservoir at Withets. Good ...	828	...
Chadderton	Oldham, Heywood and Middleton ; Spring for a few houses.	6795	...
Chorley (B)	Rivington Reservoirs. Good ...	7900	...
Church	Accrington and District Water Board and Oswaldtwistle U.D.C.	All.	...
Clayton-le-Moors	Upland surface. Good	All.	...
Culitheroe (B)	Upland. Excellent	All.	...
Colne (B)	Springs and Moorland. Good ...	6985	...
Crompton	Oldham mainly	Approx. 3743	...
Croston	Manchester—Thirlmere	463	...
Dalton-in-Furness	Reservoir at Powka Beck ...	Practically all.	Few in one township.
Darwen (B)	Upland Surface. Good	10363	Nil.
Denton	Manchester	4701	...
Droylsden	Manchester. Very good ...	3290	...
Eccles (B)	Manchester	All.	...
Failsworth	Oldham and Manchester. Good	3719	...
Farnworth	Bolton	6796	...
Fleetwood	Fylde Water Board. Good ...	4470	11 Caravans.
Formby	Southport Water Board	1684	...
Gulwood	Upland Gathering Area. Good	1380	...

TABLE 6—continued.

DISTRICT.	SOURCES AND QUALITY.	APPROXIMATE NUMBER OF HOUSES SUPPLIED.	
		DIRECT.	BY STANDPIPE.
URBAN.			
Golborne	Bulk Supply from Inee	1560	...
Grange-over-Sands ...	Hills at Newton. Exeellent ...	Practically all.	...
Great Crosby	Liverpool. Good	3731	...
Great Harwood	Dean Clough. Good	All execept 20.	...
Haslingden (B)	Bury & Dist. Joint Board. Good	4000	600
Haydock	Rivington. Good	2000	(other supplies 3
Heysham	Laneaster. Good	2046	...
Heywood (B)	Heywood and Middleton Water Board. Good.	7098	...
Hindley	Rivington Reservoirs. Good ...	All (except a few houses in fields.)	...
Horwieh	Moorland and Pumping Station. Good.	4117	...
Huyton-with-Roby ...	Liverpool	1130	...
Inee-in-Makerfield ...	Deep Wells at Golborne and Rivington Reservoirs.	4363	21
Irlam	Manchester; Warrington; 5 pumps, wells, &c. Good.	3001	...
Kearsley	Bolton. Soft	2200	...
Kirkham	Fylde Water Board. Good ...	1010	...
Laneaster (B)	Wyresdale	Approx.9000	475
Lathom and Burscough ...	Two Boreholes at Burscough. Exeellent.	1667	...
Lees	Oldham. Good	1223	...
Leigh (B)	Rivington	Not recorded.	...
Leyland	Thirlmere and Deep Well at Clayton-le-Woods. Good.	2441	...
Litherland	Liverpool. Good	3345	2
Littleborough	Roehdale. Good	3100	...
Little Crosby	Liverpool. Very good	241	3
Little Hulton	Bolton. Good	All.	...
Little Lever... ..	Bury & Dist. Joint Water Board	All but one.	...
Longridge	Preston. Very good	1059	...
Lytham Saint Anne's (B) ...	Fylde Water Board. Exeellent ...	6962	...
Middleton (B)	Middleton & Heywood Water Board.	7738	...
Milnrow	Roehdale. Good	2050	...
Morecambe (B)	Chiefly Millstone Grit supplied by Corporation of Laneaster.	Approx.4000	...
Mossley (B)	Moorland, Swineshaw and Yeoman Hey Reservoirs. Good.	Most.	...
Nelson (B)	Moorland. Good	All.	...
Newton-in-Makerfield ...	Deep Wells (2) and Headings ...	All (except 13)	...

TABLE 6—*continued.*

DISTRICT.				SOURCES AND QUALITY.	APPROXIMATE NUMBER OF HOUSES SUPPLIED.	
					DIRECT.	BY STANDPIPE.
URBAN.						
Norden	...	...	...	Heywood & Middleton Water Board and a few private supplies. Rochdale Corporation.	824 and 195 private sources	...
Ormskirk	...	...	...	Red Sandstone	1300	65
Orrell	...	...	...	Upland surface water. Good	1681	...
Oswaldtwistle	...	...	...	Own Works. Quality not satisfactory.	3520	...
Padiham	...	...	...	Pendle Hill. Good	3000	...
Poulton-le-Fylde	...	...	...	Fylde Water Board. Good ...	862	...
Preesall	...	...	...	Fylde Water Board. Good ...	520	...
Prescot	...	...	...	Liverpool. Good	2122	...
Prestwich	...	...	...	Manchester and Bury & District Joint Board.	5190	...
Radcliffe	...	...	...	Bury & Dist. Joint Board. Good	6651	...
Rainford	...	...	...	St. Helens. Good	712	...
Ramsbottom	...	...	...	Joint Board and Private. Good	3696	...
Rawtenstall (B)	...	...	...	Bury & Dist. Joint Board. Good	5500	...
Rishton	...	...	...	Aeerington Gas & Water Board. Good	1830	...
Royton	...	...	...	Oldham. Good	4080	...
Skelmersdale	...	...	...	Artesian Well. Good	1346	...
Standish-with-Langtree	...	...	...	Liverpool. Good	Practically all.	...
Stretford	...	...	...	Manchester, and 3 Wells (Wells fair)	12898	...
Swinton and Pendlebury	...	...	...	Manchester. Good	7487	...
Thornton Cleveleys	...	...	...	Fylde Water Board. Good ...	2273	...
Tottington	...	...	...	Bury & Dist. Joint Board. Good	1517	...
Trawden	...	...	...	Boring on Boulsworth Hill ...	700	...
Turton	...	...	...	Excellent. Bolton. Good	2860	...
Tyldesley-with-Shakerley	...	...	...	Manchester. Good	All.	...
Ulverston	...	...	...	Pennington, Ulverston (R). Good	All.	Rosside Village
Upholland	...	...	...	Two Deep Wells. Good	1130	...
Urmston	...	...	...	Manchester. Good	2150	...
Walton-le-Dale	...	...	...	Deep Well at School Lane and Thirlmere (Manchester Cor.).	3091	5
Wardle	...	...	...	Rochdale	700	...
Waterloo-with-Seaforth	...	...	...	Liverpool. Good	7299	6
Westhoughton	...	...	...	Bolton. Satisfactory	3360	...
Whitefield	...	...	...	Upland surface. Variable. ...	All.	...
Whitworth	...	...	...	Bacup and Rochdale. Good ...	714 from Rochdale.	...
Widnes (B)	...	...	...	Deep Wells in sandstone. Exc'll'nt	8256	...

TABLE 6—*continued.*

DISTRICT.	SOURCES AND QUALITY.	APPROXIMATE NUMBER OF HOUSES SUPPLIED.	
		DIRECT.	BY STANDPIPE.
URBAN.			
Withnell	Liverpool. Satisfactory	750	37
Worsley	Manchester and Bolton. Good ...	3889	1
RURAL.			
Barton-upon-Irwell ...	Manchester and Bolton	All.	...
Blackburn	Blackburn, Darwen, Manchester, and Private.	Not recorded.	...
Burnley	Upland surface and Springs. Good	5101	40 Approx.
Bury	Bury and District Water Board, Heywood and Middleton Water Board, Bolton Corporation and private wells.	75%	...
Chorley	Thirlmere and Liverpool	4027	...
Clitheroe	Springs and Wells... ..	1250	...
Fylde	Fylde Water Board. Good ...	3087	10
Garstang	Fylde Water Board ; Manchester ; Private Mains ; Deep and shallow Wells.	1513	25
Lancaster	Lancaster, Manchester, Heysham and Carnforth. Wells and roof-water.	1204	25
Leigh	Leigh, Manchester, and others. Good	2491	8
Limehurst	Joint Board and Oldham... ..	Not recorded.	...
Lunesdale	Thirlmere and Private Reservoir	2020	50
Preston	Preston, Manchester and Fulwood. Good.	5220	...
Sefton	Mostly Liverpool. Excellent ...	4367	18
Ulverston	Various	Not recorded.	...
Warrington	Warrington, Liverpool and a few Wells.	3063	About 34
West Lancashire	Upland surface and Deep Wells ...	4964	30
Whiston	Various Mains and Wells. Mains good ; Wells doubtful.	Not recorded.	...
Wigan	Springs and Moorlands. Good ...	2000	12

Improvements in the water supplies effected during 1927 are reported from several districts. Lancaster (B): old reservoir being extended and additional mechanical filtration plant being installed. Nelson (B): construction of new reservoir proceeding. Tottington: improved supply provided for Hawkshaw district. Leigh (R): consideration given to question of extension of water mains at Risley. Ulverston (R): a tender has been accepted for extending the main to the village of Gleaston; the supply to Cartmel Valley, especially to Flookburgh, has been considerably improved.

Extensions of water mains are reported from Chorley (B), 1860 yards; Heysham, completion of new 12 inch main from Lancaster; Heywood (B), 947 yards; Leyland, 400 yards; Middleton (B) 1389 yards; Oswaldtwistle, 6 inch main to West End district; Rainford, 466 yards; Standish-with-Langtrec, 100 yards; Walton-le-Dale, 728 yards; Chorley (R), main extended through Heskin; Garstang (R), 500 yards; Limehurst (R), new mains to Waterhouses and Littlemoss; Preston (R), 4881 yards; Warrington (R), mains extended to Bewsey in Burtonwood; Whiston (R), 6188 yards in eight townships. In many districts new mains have been laid to housing estates and new property.

Insufficient or inadequate supplies are reported in the following districts :—

Adlington	...	...	Higher and Lower Adlington at week-ends.
Oswaldtwistle	...	...	Village of Belthorn; Knuzden and Duckworth Hall districts.
Burnley (R)	...	...	Private supplies at Hapton and Roughlee.
Bury (R)	...	...	Birtle and Walmersley.
Fylde (R)	...	...	Treales, Wharles, Roseacre and part of Warton.
Garstang (R)	...	...	Pilling, Winmarleigh, Myerseough, Bilsborough; parts of Out Rawcliffe, Claughton, Cleveley, Cabus, Forton, Great Eccleston, Stalmine and Hambleton.
Lancaster (R)	...	...	Cockerham, Thurnham and Silverdale.
Leigh (R)	...	...	Risley
Ulverston (R)	...	...	Gleaston.
Wigan (R)	...	...	Portions of Dalton and Wroughtington.

In rural parishes, financial limitations and strong local opposition to the burden of high annual charges for works of water supply are barriers to the provision of much needed supplies.

Local Medical Officers of Health report generally that the possibilities of contamination are remote. In about a dozen districts, liability to plumbo-solvent action is reported as "slight." At Haydock the Medical Officer again draws attention to the possibility of contamination to an open reservoir which exists in the midst of a crowded population, and he again urges the Council to warn the inhabitants to take the precaution of boiling this water before using it for drinking purposes. He adds, "the contents of privy middens or other objectionable matter should not be deposited on the adjoining fields." Irlam: "At three farm premises the water supply is inadequate and unsatisfactory, analysis of the water indicating manurial contamination, and in one instance evidence of metallic contamination." Oswaldtwistle: reference is again made by the Medical Officer to the threatened inadequacy of the water supply to the township in general which, at the time of writing, had not been solved; this particularly affects the village of Belthorn. Ramsbottom: "several private supplies exist, some of which are liable to pollution from manured fields." Rishton: "Of eight samples of water examined, five showed an excessively high bacterial count; further samples are being taken." Garstang (R): The Medical Officer of Health reports there is an insufficient water supply in the townships of Pilling, Winmarleigh, Myerscough, Bilsborough, Nether Wyresdale, Cleveley, Forton, Cabus, Nateby, Out Rawcliffe, Claughton, Inskip, Great Eccleston, Hambleton and Stalmine. At the request of the Rural District Council, the Fylde Water Board have prepared a comprehensive scheme which is estimated to cost £81,000. Under the terms provisionally agreed upon, the estimated special rate required to meet the guarantee varies from a few pence in some townships to 2s. 3d. in Nateby, 2s. 9d. in Pilling, and 3s. 2d. in Winmarleigh. The Rural Council have made arrangements for the Chairman of the Water Committee, the Clerk, and the Sanitary Inspector to attend ratepayers' meetings in the 15 townships affected to explain the cost, and advantages derived from a wholesome supply of water. Ulverston (R): "The villages of Lowick Bridge and Lowick Green are very much in need of an adequate supply of water, and should be included in any scheme that may be promoted for the villages in the Egton-with-Newland township." A suggested scheme for Haverthwaite and Backbarrow has been under consideration, but the cost was prohibitive.

The South-West Lancashire Regional Water Committee, which has had before it two alternative schemes for the provision of further water supplies for the area, met in December, when the recommendation of the Sources Sub-Committee, "that the scheme based on Source 'A,' should be further and exhaustively examined," was adopted, and an offer made by the Liverpool Corporation to undertake the further examination and report was accepted.

Rivers and Streams.—A very considerable portion of the Administrative County, including the main industrial areas, is under the jurisdiction of the Mersey and Irwell and the Ribble Watershed Joint Committees as regards the pollution of rivers and streams. Elsewhere the County Council is the authority, and the staff of the County Public Health Department, during the year, has made inspections of rivers and streams particularly Main Dyke and Marton Mere, and Spen Dyke (Fylde (R)), Moor Hey Brook, Netherton (Sefton (R)), and the River Alt.

In July, 1927, an Advisory Committee, representing Government Departments was appointed to consider legislation to set up new Rivers Boards, and to induce greater co-operation among local authorities in the matter of the prevention of the pollution of rivers, and also a Scientific Committee to conduct research and to collect and co-ordinate the results of investigations in this country and elsewhere regarding the pollution of rivers.

Drainage and Sewerage.—Each district report gives briefly the character of the disposal works and the method of treatment, and also refers to any development which has taken place during the year, the latter being mainly extension of sewers or new sewerage schemes in recently developed areas.

The following may be given as examples of improvements effected during the year:—Brierfield: reconditioning of two contact beds. Heysham: new sewerage scheme now completed, with pumping stations in low-lying districts; this will allow for proper sewerage of all parts of the district. Irlam: Improvements to existing works, including provision of detritus tank. Kearsley: Horridge brook sewage works demolished and new pumping plant installed; sewage now treated at main outfall works. Lytham St. Anne's (B): work on new sewerage scheme in progress. Norden: extension and modernising of works completed. Poulton-le-Fylde: new sewerage scheme approved during the year. Preesall: sewerage of district approaching completion. Swinton and Pendlebury: enlargement of portion of main sewerage system; electrification of pumping plant; increased humus tanks; mechanically driven screen and detritus elevators. Whitefield: Moss Lane Works extended; extra filters provided. West Lancashire (R): sewerage scheme for Maghull in process of construction.

Extensions of sewers are reported from many areas, including Bacup (B), 1500 yards; Billinge, Beacon Lane; Carnforth, 500 yards; Chorley (B), 960 yards; Failsworth, 235 yards; Formby, 694 yards; Little Lever, 200 yards; Middleton (B), 3160 yards; Radcliffe, 150 yards; Fylde (R), Freckleton, 600 yards; Preston (R), Grimsargh, 580 yards, Ribchester, 100 yards.

Garstang (R): The Medical Officer of Health reports sewerage schemes are required for several townships but the cost is prohibitive. It is estimated £15,000 would be required to sewer the township of Pilling, and as a 1d. rate only realises £26 it is impossible to undertake the work. The Medical Officer of Health adds: "In my opinion the question of water and sewerage in a rural district should have assistance from the Government or the County Council, or should be a national charge."

Closet Accommodation.—Table 7, pages 51 to 57, shows approximately the number of the various types of closet accommodation in each of the County sanitary districts at the end of the year 1927.

The closet accommodation of the County districts at the end of 1927 may be summarized as under:—

	Urban districts.	Rural districts.	County.
Privy Middens	14,687	17,303	31,990
Privy Closets	22,860	20,766	43,626
Pail Closets	28,276	10,248	38,524
Water Closets	267,472	20,092	287,564
Waste-water Closets	85,202	4,867	90,069
Ashpits (excluding middens)	58,446	7,881	66,327
Movable Ashbins	246,537	19,006	265,543

The figures below, collated from local health reports, indicate the action taken in the County districts during 1927 and the preceding four years to abolish the insanitary types of privy, &c., accommodation:—

	1923	1924	1925	1926	1927
Privies converted to Water Closets	4181	3256	3104	2451	2283
Privies converted to Pail Closets	144	266	220	187	204
Pail Closets converted to Water Closets	2269	3185	2623	1997	1530

There are now 54 districts in the County area with less than fifty privy middens in their area. During the last eighteen years approximately 60,000 privies have been abolished; of the 31,990 which remain, 17,303 are in the rural parishes.

During the year 1927 conversions were most numerous in Haydock, 268; Heywood (B), 127; Hindley, 172; Leyland, 98; Radcliffe, 137; Westhoughton, 224; and Worsley, 193.

TABLE 7—CLOSET ACCOMMODATION.

URBAN DISTRICTS.										CONVERSIONS DURING 1927.						TOTAL CONVERSIONS DURING 5 YEARS, 1922-1926.					
										Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Freshwater Closets.	No. of Movable Ashbins.	No. of Waste Water Closets.	Council's Contribution towards Cost of Conversion.	Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Pails, &c.	Pail Closets to Fresh W.C.'s.
No. of Middens.	No. of Privy Closets.																				
Abram ...	522	803	31	159	599	162	...	Half-cost	...	...	...	...	...	...	...	17	...	2	...	...	...
Accrington (B)	27	27	274	5058	2376	2782	9233	Half-cost	...	...	...	20	...	...	...	...	448	...	...	...	6
Adlington	104	104	5	16	896	790	26	Water free	37	...	...	...	...	...	...	...	...	...	...	...	4
Ashton-in-Makerfield	...	...	3724	2883	712	532	25	...	...	...	...	3	...	...	...	...	15	...	...	...	...
Ashton-under-Lyne (B)	...	...	...	740	4021	7970	10246	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Aspull ...	304	545	32	35	737	737	1	Connection to sewer	29	...	...	...	...	...	...	141	...	...	...	...	...
Atherton	29	35	3	985	2842	2300	1405	Half-cost	6	...	...	...	...	...	...	44	...	...	...	...	7
Audenshaw	...	...	32	212	1119	1693	1370	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bacup (B)	16	18	901	66	3134	4605	444	Half-cost	...	...	7	178	...	1	60	968	...	10	...	...	4
Barrowford	14	14	19	775	274	417	825	...	...	...	...	...	...	...	...	...	2	...	...	...	2
Billinge-and-Winstanley	347	524	6	48	180	111	...	...	10	...	1	...	...	...	46	...	5	...	...	...	...
Blackrod	210	300	26	6	487	456	24	...	10	...	...	...	...	...	59	...	...	...	...	...	9
Brierfield	8	32	55	1380	501	854	1697	...	...	...	...	...	...	1	...	...	...	14	...	8	...
Carnforth	142	142	...	541	645	287	41	Half-cost	32	...	...	...	...	...	47	...	...	...	...	...	...
Chadderton	...	...	1235	240	2565	5617	3168	Half-cost W.W.C's—whole cost	...	...	...	69	...	2	...	479	...	...	...	...	19
Chorley (B)	55	57	41	15	7715	7475	958	Half-cost	...	...	2	...	...	6	2	...	...	2	...	...	11
Church	5	5	88	746	352	377	1495	£5 per closet	...	...	...	3	...	...	2	55	...	...	...	...	...
Clayton-le-Moors	6	6	13	920	197	1190	1894	...	...	...	...	2	...	...	...	6	...	2	...	...	23

TABLE 7—continued.

URBAN DISTRICTS.										CONVERSIONS DURING 1927.						TOTAL CONVERSIONS DURING 5 YEARS, 1922-1926.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
										Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Freshwater Closets.	No. of Movable Ashbins.	No. of Waste Water Closets.	Council's Contribution towards Cost of Conversion.	Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Privy Closets to Pails, &c.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Privy Closets to Pails, &c.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Clitheroe (B)	111	14	1915	3500	1505	£4 per closet	7</

*Including 70 earthenware tanks.

URBAN DISTRICTS.										Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Freshwater Closets.	No. of Movable Ashbins.	No. of Waste Water Closets.	Council's Contribution towards Cost of Conversion.	CONVERSIONS DURING 1927.						TOTAL CONVERSIONS DURING 5 YEARS, 1922-1926.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
										No. of Middens.	No. of Privy Closets.							Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Privy Closets to Pails, &c.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Waste W.C.'s. to Fresh W.C.'s.	Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Privy Closets to Pails, &c.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Waste W.C.'s. to Fresh W.C.'s.	Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Privy Closets to Pails, &c.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Waste W.C.'s. to Fresh W.C.'s.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Haslingden (B)	2	4	616	557	1030	3519	2407	...	Half-cost	61</

TABLE 7—continued.

URBAN DISTRICTS.		Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Freshwater Closets.	No. of Movable Ashbins.	No. of Waste Water Closets.	Council's Contribution towards Cost of Conversion.	CONVERSIONS DURING 1927.						TOTAL CONVERSIONS DURING 5 YEARS, 1922-1926.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
		No. of Middens.	No. of Privy Closets.							Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Privy Closets to Pails, &c.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Little Crosby	170	161	2

TABLE 7—continued.

[illegible]

TABLE 7—continued.

URBAN DISTRICTS.		Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Freshwater Closets.	No. of Movable Ashbins.	No. of Waste Water Closets.	Council's Contribution towards Cost of Conversion.	CONVERSIONS DURING 1927.						TOTAL CONVERSIONS DURING 5 YEARS, 1922-1926.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		No. of Middens.	No. of Privy Closets.							Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Privy Closets to Pails, &c.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Pails, &c. to Fresh W.C.'s.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Waste W.C.'s. to Fresh W.C.'s.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Ulverston	...	64	173	3	586	2127	1644	8	...	1	65	1</

TABLE 7—continued.

[illegible]

Scavenging.—Scavenging, refuse collection and disposal, and public cleansing are undertaken in the County districts as follows :—

By local authorities in 96 districts ;

By authority and contract, or by contract only, in 14 districts ;

By authority, by contract, and/or by owners or occupiers in 10 districts.

Local conditions differ greatly, but on the whole, except in the sparsely populated country areas, the work of public cleansing is fairly efficient ; in a few districts, however, the method of disposing of refuse is from time to time a cause of complaint.

The following comments are extracted from the local reports :—

Golborne	...	...	...	Systematic removal of house refuse impossible owing to large number and different capacities of privy middens.
Heywood (B)	...	...	...	Not efficient as regards emptying privy middens. Shortage of carts and men. Organic refuse exposed.
Irlam	...	...	...	Disposal not satisfactory.
Lancaster (B)	...	...	...	Many complaints of accumulation of refuse.
Waterloo-with-Scaforth	...	...	...	Some complaints re tips.
Fylde (R)	...	...	...	All townships satisfactory except Freckleton.
Garstang (R)	...	...	...	Refuse removal done by occupiers only "fair."
Lancaster (R)	...	...	...	Scavenging by occupiers unsatisfactory.
Whiston (R)	...	...	...	Not satisfactory where done by occupiers.

In about 72 districts the contents of privy middens are still removed in the daytime.

In 61 urban districts motor vehicles are used for the removal of refuse, but only in 2 rural districts is this form of transport available.

REFUSE DESTRUCTORS.—Destructors have been provided in 26 districts, viz., Accrington (B), Atherton, Chadderton, Chorley (B), Clitheroe (B), Colne (B), Crompton, Darwen (B), Droylsden, Farnworth (2 incinerators), Haslingden (B), Heywood (B), Lancaster (B), Leigh (B), Litherland, Lytham Saint Anne's (B), Middleton (B), Nelson (B), Ormskirk, Padiham, Radcliffe, Ramsbottom, Royton, Stretford, Swinton and Pendlebury, and Widnes (B).

At Prestwich a destructor is being provided, and at Morecambe (B) refuse disposal plant (salvage, with incineration of residue) is to be erected at White Lund.

Special Inspections of Districts by the County Public Health Staff.—The special investigations by the County Public Health Staff into the sanitary circumstances and administration of the County districts continue. To date (August, 1928), 70 districts have been wholly covered, and portions of two other rural districts have been inspected. An exhaustive report is prepared on each area, including the necessary recommendations, and a copy is sent to the local authority with a request that the County Council be supplied with the Council's observations as to the steps they propose to take to carry out the recommendations.

Re-inspections of the districts are made from time to time—11 being carried out during the year—and the progress made is noted and reported to the County Public Health and Housing Committee.

OTHER SPECIAL INSPECTIONS BY THE COUNTY STAFF.—During 1927 the County Medical and Sanitary Staff made numerous special investigations into public health matters, amongst which may be mentioned :—

Consultations *re* cases, or suspected cases of smallpox in a number of County districts, followed in some instances by direct co-operation with the local health staff in dealing with outbreaks ;

Consultation *re* suspected case of typhus fever ;

Enquiries *re* pollution of rivers, brooks, ditches, floodings ; *re* proposed sewage schemes and into the condition of sewage works ;

Investigations into unsatisfactory water supplies ;

Special inspections into matters arising under the Milk and Dairies Acts and Orders, &c.

Sanitary Inspection.—Table 8 gives the number of premises visited, the defects or nuisances discovered, and the results of the action taken. The number of nuisances abated during the year was 56,075 ; notices served totalled 33,105, and legal proceedings were instituted in 69 cases.

TABLE 8—SANITARY INSPECTIONS DURING 1927.

URBAN DISTRICTS.	No. of premises visited.	DEFECTS OR NUISANCES.		No. OF NOTICES SERVED.		LEGAL PROCEEDINGS.	
		No. discovered.	No. abated.	In-formal.	Statutory.	No.	Result.
Abram	1250	340	296	50	21	...	
Accrington (B)	1244	498	481	202	103	...	
Adlington	80	22	22	19	3	...	
Ashton-in-Makerfield	977	1110	884	322	191	...	
Ashton-under-Lyne (B)	4824	634	607	211	41	...	
Aspull	411	681	462	190	86	11	Orders made with costs.
Atherton	1645	592	587	473	118	3	Fined £6, including costs.
Audenshaw	575	309	299	69	13	1	Order made.
Bacup (B)	846	619	596	478	101	1	Fined 10s.
Barrowford	589	123	116	66	1	...	
Billinge-and-Winstanley	204	164	164	162	2	...	
Blackrod	410	66	66	28	2	...	
Brierfield	223	90	90	90	20	...	
Carnforth	126	96	85	38	11	...	
Chadderton	1302	1065	862	1065	65	...	
Chorley (B)	5133	3362	3384	1725	6	...	
Church	90	58	56	57	1	1	Settled out of court.
Clayton-le-Moors	262	185	180	97	7	...	
Clitheroe (B)	1749	174	125	156	3	...	
Colne (B)	626	395	283	327	48	1	Withdrawn on payment of costs.
Crompton	1897	427	440	335	26	1	Fined £1 and costs, and ordered to do work within 7 days.
Croston	40	10	10	9	...	...
Dalton-in-Furness	338	190	190	172	...	...
Darwen (B)	3605	1261	1089	1211	284	...	
Denton	2908	309	270	189	86	...	
Droylsden	816	835	811	425	27	...	
Eccles (B)	2143	2643	2378	2143	272	...	
Failsworth	3967	1230	1205	213	169	...	
Farnworth	1415	2100	1602	1013	336	24	Orders made with costs. 5 cases fined £1 each.
Fleetwood	12582	940	806	470	6	...	
Formby	227	56	49	56	11	...	
Fulwood	10	2	2	1	...	...
Golborne	421	92	92	90	7	...	
Grange-over-Sands	119	4	4	4	...	...
Great Crosby	1566	621	617	234	13	...	
Great Harwood	382	234	234	165	...	...
Haslingden (B)... ..	3448	990	960	472	55	...	

TABLE 8—continued.

URBAN DISTRICTS.	No. of premises visited.	DEFECTS OR NUISANCES.		No. OF NOTICES SERVED.		LEGAL PROCEEDINGS.	
		No. discovered.	No. abated.	In-formal.	Statutory.	No.	Result.
Haydock	2190	428	428	219	...	...
Heysham	10	10	10	10	...	...
Heywood (B)	2081	226	221	80	10	...	
Hindley	1063	1312	1427	201	131	...	
Horwich	2623	907	881	796	91	1	Withdrawn on payment of costs.
Huyton-with-Roby	287	91	83	88	54	...	
Ince-in-Makerfield	830	1204	1159	444	8	...	
Irlam	551	822	798	282	33	...	
Kearsley	88	233	204	20	...	...
Kirkham	427	54	54	41	1	...	
Lancaster (B)	About 2500	1511	1138	665	250	...	
Lathom & Burscough	77	49	49	21	1	1	Order made..
Lees	158	71	17	71	26	...	
Leigh (B)	2790	2655	2587	768	97	1	Fined £1.
Leyland	171	163	105	134	47	...	
Litherland	731	1257	1257	508	15	...	
Littleborough	142	498	463	23	...	...
Little Crosby	6	4	4	...	...	...
Little Hulton	617	112	112	68	44	...	
Little Lever	84	27	27	27	...	...
Longridge	200	45	45	45	...	...
Lytham Saint Anne's (B)	365	461	425	284	...	...
Middleton (B)	757	389	212	250	18	...	
Milnrow	1409	582	561	246	4	1	Order to abate.
Morecambe (B)	2722	275	205	429	121	...	
Mossley (B)	151	57	53	37	1	...	
Nelson (B)	4775	197	190	171	9	...	
Newton-in-Makerfield	1080	424	404	180	60	...	
Norden	36	36	38	38	...	...
Ormskirk	95	35	30	22	2	...	
Orrell	175	103	103	88	15	...	
Oswaldtwistle	282	282	175	157	5	3	2, Fined £1 and costs. 1, Order made and to pay costs.
Padiham	4211	1379	1336	502	63	...	
Poulton-le-Fylde	277	86	81	69	17	...	
Preesall	90	43	19	38	...	...
Prescot	732	302	300	212	48	...	
Prestwich	374	410	417	203	84	1	Successful
Radcliffe	2259	290	282	230	116	...	
Rainford	97	62	62	62	...	...
Ramsbottom	2705	1022	979	106	2	...	

TABLE 8—*continued.*

URBAN DISTRICTS.	No. of premises visited.	DEFECTS OR NUISANCES.		No. OF NOTICES SERVED.		LEGAL PROCEEDINGS.	
		No. discovered.	No. abated.	In-formal.	Statutory.	No.	Result.
Rawtenstall (B)	1012	477	485	511	...	...
Rishton	1039	681	668	92	12	...	
Royton	350	350	330	320	32	...	
Skelmersdale	228	228	166	109	...	...
Standish-with-Langtree ...	33	19	19	16	...	...
Stretford	13932	4128	4128	292	65	...	
Swinton and Pendlebury ...	8820	1629	1516	894	32	...	
Thornton Cleveleys	473	215	215	130	59	1	Order made.
Tottington ... ..	...	199	138	35	51	...	
Trawden	74	10	10	10	...	...
Turton	1948	758	758	163	5	...	
Tyldesley-with-Shakerley ...	1700	275	270	250	35	...	
Ulverston	115	204	174	182	22	1	Order made.
Upholland	146	110	98	105	5	...	
Urmston	110	103	98	19	64	...	
Walton-le-Dale... ..	1986	551	466	437	114	...	
Wardle	185	24	24	21	3	...	
Waterloo-with-Seaforth ...	6839	3560	3327	875	156	...	
Westhoughton	1560	78	68	48	16	...	
Whitefield	1023	257	145	88	29	...	
Whitworth	254	271	262	37	...	...
Widnes (B)	5172	1724	1724	456	...	...
Withnell	113	21	21	21	10	...	
Worsley	1636	576	515	376	200	...	
Total Urban Districts ...	147416	56729	52970	26338	4451	53	
RURAL DISTRICTS.							
Barton-upon-Irwell	1809	162	155	98	29	...	
Blackburn	1365	193	191	127	1	...	
Burnley	362	185	172	166	10	1	Order made.
Bury	253	190	120	70	...	...
Chorley	3495	156	156	129	2	...	
Clitheroe	934	308	298	98	4	...	
Fylde	464	114	109	114	23	12	3—Fines and costs imposed ; 7—orders made and to pay costs ; 1—Withdrawn on complying with Notice ; 1—Defendant absconded.
Garstang	1084	169	152	147	2	...	
Lancaster	993	263	241	170	25	...	
Leigh	603	140	125	95	20	...	
Limehurst	1962	Not re-corded	105	46	6	1	Order made.
Lunesdale	370	94	79	72	6	...	
Preston	735	249	107	13	91	...	

TABLE 8—continued.

RURAL DISTRICTS.	No. of premises visited.	DEFECTS OR NUISANCES.		No. OF NOTICES SERVED.		LEGAL PROCEEDINGS.	
		No. discovered.	No. abated.	In-formal.	Statutory.	No.	Result.
Sefton	974	118	118	109	9	...	Withdrawn—requirements partly completed.
Ulverston	2041	189	99	162	27	...	
Warrington	2000	315	228	12	84	2	
West Lancashire	159	441	394	82	2	...	
Whiston	200	200	170	149	21	...	
Wigan	406	94	86	94	1	...	
Total Rural Districts	20209	3580	3105	1953	363	16	
Total Administrative County	167625	60309	56075	28291	4814	69	

Smoke Abatement.—Table 9 shows the action taken by local authorities to control the nuisance from excessive smoke pollution, and gives the number of smoke observations (3055) taken during the year, and the number of legal proceedings (18).

In 1926 the observations numbered 1857 and legal proceedings 15.

TABLE 9—SMOKE ABATEMENT.

URBAN DISTRICTS.	No. of Smoke Observations.	Time limit allowed. Minutes per hour.	URBAN DISTRICTS.	No. of Smoke Observations.	Time limit allowed. Minutes per hour.
Abram	2	...	Croston ... ..	...	...
Acerington (B)	31	3 to 7	Dalton-in-Furness	1	7
Adlington ... ..	...	*6	Darwen (B)	72	5 to 7
Ashton-in-Makerfield	8	8	Denton	21	*2
Ashton-under-Lyne (B)	52	4	Droylsden	369	*3
Aspull ... ..	...	5	Eccles (B)	86	*2
Atherton	21	5	Failsworth	30	*2 to 4
Audenshaw	28	4	Farnworth	63	*2
Bacup (B)	2	10	Fleetwood ... ..	...	...
Barrowford	13	10	Formby	17	4
Billinge-and-Winstanley	4	10	Fulwood ... ..	...	...
Blackrod	2	3	Golborne ... ..	...	*2
Brierfield ... ..	...	...	Grange-over-Sands ... ..	...	...
Carnforth ... ..	...	...	Great Crosby... ..	5	...
Chadderton	21	*2 to 4	Great Harwood	3	10
Chorley (B)	2	8	Haslingden (B)	41	*2
Church	8	8	Haydock ... ..	...	...
Clayton-le-Moors	17	10	Heysham ... ..	...	*2½
Clitheroe (B)	8	...	Heywood (B)	144	*3
Colne (B)	259	5 to 10	Hindley	11	5
Crompton	118	*3 to 5	Horwich	19	*5

* Minutes per half hour.

TABLE 9—*continued.*

URBAN DISTRICTS.					No. of Smoke Observa- tions.	Time limit allowed. Minutes per hour.	URBAN DISTRICTS.					No. of Smoke Observa- tions.	Time limit allowed. Minutes per hour.
Huyton-with-Roby ...	...	...	...	...	...	...	Thornton Cleveleys ...	...	...	...	7	...
Ince-in-Makerfield ...	...	...	...	...	...	...	Tottington ...	...	...	...	14	12
Irlam ...	...	...	...	...	47	...	Trawden ...	...	...	...	...	...
Kearsley ...	...	...	...	...	2	7½	Turton ...	...	...	...	50	6
Kirkham ...	...	...	...	...	8	6	Tyldesley-with-Shakerley ...	...	...	...	10	*4
Laneaster (B) ...	...	...	...	...	17	...	Ulverston ...	...	...	...	...	...
Lathom and Burscough ...	...	...	...	...	...	...	Upholland ...	...	...	...	6	5
Lees ...	...	...	...	...	7	4	Urmston ...	...	...	...	...	*2
Leigh (B) ...	...	...	...	...	49	8	Walton-le-Dale ...	...	...	...	...	...
Leyland ...	...	...	...	...	2	2 to 6	Wardle ...	...	...	...	46	5
Litherland ...	...	...	...	...	12	4	Waterloo-with-Seaforth ...	...	...	...	7	4
Littleborough ...	...	...	...	...	99	*2	Westhoughton ...	...	...	...	8	9
Little Crosby...	...	...	...	...	...	...	Whitefield ...	...	...	...	19	3 to 6
Little Hulton ...	...	...	...	...	14	*3	Whitworth ...	...	...	...	15	*5
Little Lever ...	...	...	...	...	...	4	Widnes (B) ...	...	...	...	...	...
Longridge ...	...	...	...	...	...	...	Withnell ...	...	...	...	20	6
Lytham Saint Anne's (B) ...	...	...	...	...	14	*2½	Worsley ...	...	...	...	43	7
Middleton (B) ...	...	...	...	...	71	*4	Total Urban Districts ...	...	...	2945	...	
Milnrow	19	2							
Morecambe (B)	5	...	RURAL DISTRICTS.						
Mossley (B)	46	10							
Nelson (B) ...	...	...	...	...	328	*5	Barton-upon-Irwell ...	...	...	...	8	...
Newton-in-Makerfield ...	...	...	...	...	...	...	Blackburn ...	...	...	...	32	...
Norden ...	...	...	...	...	6	*2	Burnley ...	...	...	...	8	*5
Ormskirk ...	...	...	...	...	32	3	Bury ...	...	...	...	8	...
Orrell ...	...	...	...	...	...	...	Chorley ...	...	...	...	6	8
Oswaldtwistle ...	...	...	...	...	14	4 to 7	Clitheroe ...	...	...	...	6	...
Padiham ...	...	...	...	...	14	10	Fylde ...	...	...	...	7	...
Poulton-le-Fylde ...	...	...	...	...	...	...	Garstang ...	...	...	...	...	...
Preesall ...	...	...	...	...	...	...	Laneaster ...	...	...	...	5	...
Preseot ...	...	...	...	...	28	...	Leigh ...	...	...	...	10	6
Prestwich ...	...	...	...	...	9	4	Limehurst ...	...	...	...	11	3
Radcliffe ...	...	...	...	...	48	4 to 6	Lunesdale ...	...	...	...	...	...
Rainford ...	...	...	...	...	...	...	Preston ...	...	...	...	...	...
Ramsbottom ...	...	...	...	...	31	9	Sefton ...	...	...	...	...	...
Rawtenstall(B) ...	...	...	...	...	2	10	Ulverston ...	...	...	...	...	...
Rishton ...	...	...	...	...	16	...	Warrington ...	...	...	...	...	*2
Royton ...	...	...	...	...	32	6 to 8	West Lancashire ...	...	...	...	...	...
Skelmersdale ...	...	...	...	...	...	...	Whiston ...	...	...	...	8	...
Standish-with-Langtree ...	...	...	...	...	...	...	Wigan ...	...	...	...	1	...
Stretford ...	...	...	...	...	32	*2	Total Rural Districts ...	...	...	110	...	
Swinton and Pendlebury ...	...	...	...	...	218	*2	Total Administrative County ...	...	...	3055	...	

* Minutes per half hour.

Legal action in 1927 was taken at Ashton-under-Lyne (B), 1 case, fined £2 and order to abate; Middleton (B), 6 cases, 4 fined each £1, and 2 orders made; Stretford, 1 case, fined £2 2s.; and Swinton and Pendlebury, 10 summonses against one firm, fines amounting to £17 6s. imposed.

The question of smoke abatement has been more to the front during 1927, by reason of the Public Health (Smoke Abatement) Act, 1926, which became operative on the 1st July, 1927. Under this Act, a local authority may, and if so required by the Ministry of Health shall, make byelaws regulating the emission of black smoke. Two or more local authorities may combine to carry out their duties in respect of smoke nuisances.

Power is given to County Councils, and if a County Council resolve that a local authority have failed to carry out their duties in respect of smoke nuisances and make complaint thereof to the Minister of Health, the Minister may cause an inquiry to be held, and if satisfied from the result of such inquiry that the local authority have failed to carry out their duties adequately, may by Order authorise the County Council to carry out those duties either for a definite period or until the Minister otherwise directs.

In Circular 759, dated 17th February, 1927, the Minister of Health draws the attention of local authorities to matters in connection with the administration of the law with regard to smoke abatement.

Premises and Occupations which can be controlled by Byelaws or Regulations.—**OFFENSIVE TRADES.**—Offensive trades have been established in about 68 districts, the premises numbering 466. These are chiefly tripe boilers, gut scrapers, tanners or leather dressers, fat melters and oil works, soap boilers, &c. Action was taken during the year in respect of offensive trades at Acerrington (B), Norden, Sefton (R), &c.

FACTORIES, WORKSHOPS AND WORKPLACES.—Table 10 is a summary of the action taken in the County districts during the year 1927, and shows the number of inspections made, and the defects found :—

TABLE 10—FACTORIES, WORKSHOPS AND WORKPLACES.

1.—INSPECTION OF FACTORIES, WORKSHOPS AND WORKPLACES.

INCLUDING INSPECTIONS MADE BY SANITARY INSPECTORS OR INSPECTORS OF NUISANCES.

Premises.	Number of		
	Inspections.	Written Notices.	Occupiers prosecuted.
Factories (Including Factory Laundries)	3441	243	21
Workshops (Including Workshop Laundries)	7049	201	53
Workplaces (Other than Outworkers' premises)	1265	38	3
TOTAL	11755	482	77

2.—DEFECTS FOUND IN FACTORIES, WORKSHOPS AND WORKPLACES.

Particulars.	Number of Defects.			Number of offences in respect to which Prosecutions were Instituted.	
	Found.	Remedied.	Referred to H.M. Inspector.		
<i>Nuisances under the Public Health Acts :—*</i>					
Want of cleanliness	346	342	2	...	
Want of ventilation	33	33	...	...
Overcrowding ... ..	...	...	...	...
Want of drainage of floors	19	19	...	...
Other nuisances	195	193	...	...
Sanitary accommodation {	insufficient	34	26	2	...
	unsuitable or defective	222	170	5	...
	not separate for sexes	7	5
<i>Offences under the Factory and Workshop Acts :—</i>					
Illegal occupation of underground bakehouse (s. 101) ...	4	3	1	...	
Other Offences	61	61	2	...	
TOTAL	921	852	12	...	

* Including those specified in sections 2, 3, 7 and 8 of the Factory and Workshop Act, 1901, as remediable under the Public Health Acts.

COMMON LODGING HOUSES.—There are 83 common lodging houses situate in 34 districts. At Ashton-under-Lyne (B) these premises are “not as satisfactory as desired”; only “fair,” at Clitheroe (B), Colne (B), Crompton, Haslingden (B), Heywood (B), Littleborough, Newton-in-Makerfield, Ormskirk, Padiham, Radcliffe, Rawtenstall (B), Swinton and Pendlebury, Widnes (B) and Garstang (R); and “poor” at Nelson (B).

HOUSES LET IN LODGINGS.—In 20 districts houses let in lodgings are reported upon. At Lancaster (B) new byelaws were made in 1926, but have not yet been enforced. New byelaws have been made at Oswaldtwistle, and are in preparation at Chorley (B), and Stretford. The Medical Officers of Health of Farnworth, Leigh (B), and Middleton (B) report that byelaws are needed.

Canal Boats.—Reference to the inspection of canal boats is made in 15 district reports; 290 boats were examined, and 10 infringements of the Acts or orders noted.

Chief Sanitary Requirements of Districts.—The information given under this head in Table 11 is extracted from the reports of the local Medical Officers of Health.

TABLE 11—CHIEF SANITARY REQUIREMENTS.

URBAN DISTRICTS.	CHIEF SANITARY REQUIREMENTS.
Abram	Improvements of sewage disposal for Plank Lane and Bickershaw.
Accrington (B)	Abolition of ashpits and waste water closets.
Adlington	Conversion of privies. Improved water supply.
Ashton-in-Makerfield	Completion of making up of back streets. Substitution of ashbins for ashpits. Conversion of pail closets.
Ashton-under-Lyne (B) ... ..	.....
Aspull	Conversion of privies. Paving of back yards. Cleaning and repairs to property.
Atherton	Abolition of ashpits and substitution of bins.
Audenshaw ... ..	.....
Bacup (B)	More rapid conversions of pail closets.

TABLE 11—*continued*.

URBAN DISTRICTS.					CHIEF SANITARY REQUIREMENTS.
Barrowford	...	...	...	...	.....
Billinge-and-Winstanley	...	...	...	...	Demolition of property beyond reasonable repair.
Blackrod	...	...	...	...	General.
Brierfield	...	...	...	...	A scheme for sewerage Marsden Heights area. A few back streets require paving.
Carnforth	...	...	...	...	.....
Chadderton	...	...	...	...	Continued extension of sewers, conversion of pail closets, and abolition of open ashpits. Removal of cesspools.
Chorley (B)	...	...	...	...	Public mortuary. Public baths and wash-houses.
Church	...	...	...	...	Abolition of ashpits.
Clayton-le-Moors	...	...	...	...	.....
Clitheroe (B)	...	...	...	...	Abolition of remaining pail closets. Extensions of sewers. Further street paving.
Colne (B)	...	...	...	...	Acceleration in conversion of pail closets. Substitution of movable receptacles in lieu of ashpits.
Crompton	...	...	...	...	Housing. Demolition of unfit property. Abolition of smoke nuisance.
Croston	...	...	...	...	More houses. Completion of sewerage scheme, including outfall works.
Dalton-in-Furness	...	...	...	...	New sewage outfall at Lindal-in-Furness.
Darwen (B)	...	...	...	...	Paving of the river bed.
Denton	...	...	...	...	Paving back passages. Abolition of waste-water closets. Steam disinfecter. Attention to smoke nuisance.
Droylsden	...	...	...	...	Paving of private streets and passages. Re-opening of refuse destructor.
Eccles (B)	...	...	...	...	Hospital accommodation for infectious diseases. Houses of working class type.
Failsworth	...	...	...	...	Paving of private streets. Abolition of insanitary ashpits.
Farnworth	...	...	...	...	Conversion of privies. Additional houses.
Fleetwood	...	...	...	...	New mortuary. New abattoirs. New van for removal of infected bedding, clothes, &c.
Formby	...	...	...	...	Extensions to sewer where possible.
Fulwood	...	...	...	...	Increased water supply. Provision of portable ashbins. Re-surfacing and maintenance of roads.
Golborne	...	...	...	...	Conversion of conservancy closets and covering of ashpits. Paving of back streets and passages.
Grange-over-Sands	...	...	...	...	.....
Great Crosby	...	...	...	...	Destructor.
Great Harwood	...	...	...	...	Abolition of earthenware tanks.
Haslingden (B)	...	...	...	...	Public abattoir. Working-class houses.
Haydock	...	...	...	...	Conversion of privies. Paving of back passages. Sewering of certain areas. Paving of several school playgrounds.
Heysham	...	...	...	...	Improved roads. Conversion of privies.
Heywood (B)	...	...	...	...	Conversion of privies. New byelaws.

TABLE 11—*continued.*

URBAN DISTRICTS.						CHIEF SANITARY REQUIREMENTS.
Hindley	...	...	...	...	...	Conversion of privies. Public abattoir. Refuse destructor.
Horwich	...	...	...	...	...	Abolition of waste-water closets. Extension of sewers. Public abattoir.
Huyton-with-Roby	...	...	...	...	...	Privy conversions. Private streets to be taken over. Extensions of sewers.
Ince-in-Makerfield	...	...	...	...	...	New sewer. Abolition of privy middens.
Irlam	...	...	...	...	...	More suitable means of refuse disposal. Paving and draining of private streets and passages. Bye-laws to prevent nuisance from waste of fish dealers, &c. Increased powers for dealing with nuisances caused by fumes from various works.
Kearsley	...	...	...	...	...	Houses.
Kirkham	...	...	...	...	...	Privy conversions.
Lancaster (B)	...	...	...	...	...	Houses. Weekly collection of house refuse. Smoke abatement. Improvement in production and distribution of milk.
Lathom and Burscough	...	...	...	...	...	Conversion of privies. More houses.
Lees	...	...	...	...	...	.....
Leigh (B)	...	...	...	...	...	Conversion of privies. Smoke abatement. Supply of clean milk.
Leyland	...	...	...	...	...	Steam disinfectors.
Litherland	...	...	...	...	...	.....
Littleborough	...	...	...	...	...	Destructor. Public abattoir.
Little Crosby	...	...	...	...	...	.....
Little Hulton	...	...	...	...	...	.....
Little Lever	...	...	...	...	...	Conversion of privies.
Longridge	...	...	...	...	...	.....
Lytham Saint Anne's (B)	...	...	...	...	...	Completion of sewerage scheme.
Middleton (B)	...	...	...	...	...	Provision of working-class houses. Maternity home. Ante-natal centre. Disinfestation station. Privy conversions. Conversion of pail closets. Paving of streets and yards.
Milnrow	...	...	...	...	...	Sewerage system for Burnedge district.
Morecambe (B)	...	...	...	...	...	Overhauling of sewage system. Refuse destructor. Efficient system of land drainage.
Mossley (B)	...	...	...	...	...	Houses.
Nelson (B)	...	...	...	...	...	.....
Newton-in-Makerfield	...	...	...	...	...	More houses. Improved filtration of water. Privy and pail conversions. Extension of sewage works. Paving and draining of back streets. Assistant Sanitary Inspector. Mortuary.
Norden	...	...	...	...	...	Conversion of privies and pails.
Ormskirk	...	...	...	...	...	Houses. Conversion of privies.
Orrell	...	...	...	...	...	Infectious diseases hospital. Conversion of privies. Destructor.
Oswaldtwistle	...	...	...	...	...	Completion of conversions of privies and pails. Abolition of open ashpits.

TABLE 11—continued.

URBAN DISTRICTS.					CHIEF SANITARY REQUIREMENTS.
Padiham	...	...	...	...	.....
Poulton-le-Fylde	...	...	...	...	Extension of sewerage scheme.
Preesall	...	...	...	...	Conversions of privy and pail closets. Abolition of middens and cesspools. Extension of sewers. Cleansing of watercourses. Re-conditioning of old houses.
Prescot	...	...	...	...	Houses. Privy conversions. Alterations to sewage works and enlargement of sewers.
Prestwich	...	...	...	...	Conversion of privies and abolition of ashpits. Steam disinfecting apparatus. Drainage scheme for part of district.
Radcliffe	...	...	...	...	Street paving. Adoption of streets.
Rainford	...	...	...	...	Improved drainage system.
Ramsbottom	...	...	...	...	Re-sewering of back streets. Conversion of privies and pail closets.
Rawtenstall (B)	...	...	...	...	.....
Rishton	...	...	...	...	Bathing facilities. Scheme for abolishing remaining ashpits.
Royton	...	...	...	...	Sewering and paving of back passages. Conversion of pails.
Skelmersdale	...	...	...	...	Privy conversions.
Standish-with-Langtree	...	...	...	...	Privy conversions.
Stretford	...	...	...	...	.....
Swinton and Pendlebury	...	...	...	...	Houses. Increased hospital accommodation for infectious diseases. Removal of caravans. Public sanitary convenience.
Thornton Clevcleys	...	...	...	...	New streets. Paving of back passages. Extension of sewerage scheme.
Tottington	...	...	...	...	.....
Trawden	...	...	...	...	More houses. Improvements at farm premises.
Turton	...	...	...	...	.....
Tyldesley-with-Shakerley	...	...	...	...	More houses.
Ulverston	...	...	...	...	New outfall sewer.
Upholland	...	...	...	...	Privy conversions.
Urmston	...	...	...	...	.....
Walton-le-Dale	...	...	...	...	Privy conversions. Abolition of ashpits. Draining and construction of back passages and side streets.
Wardle	...	...	...	...	Improvement in condition of streams. Privy conversions. Housing improvements.
Waterloo-with-Seaforth	...	...	...	...	.....
Westhoughton	...	...	...	...	Closet conversions. More houses. Paving of back yards and streets.
Whitefield	...	...	...	...	Conversion of privies. Paving of back passages. Sewers.
Whitworth	...	...	...	...	More houses.
Widnes (B)	...	...	...	...	More houses.
Withnell	...	...	...	...	Public slaughterhouse. Conversion of pail closets. Portable ashbins.
Worsley	...	...	...	...	Privy conversions. Street paving. Alleviation of overcrowding.

TABLE 11—*continued.*

RURAL DISTRICTS.					CHIEF SANITARY REQUIREMENTS.
Barton-upon-Irwell	...	...	...	...	Additional sewerage. Improved method of refuse disposal.
Blackburn...	...	...	...	...	.....
Burnley	...	...	...	...	Sewage disposal works.
Bury	...	...	...	...	Improvements in housing, &c., of agricultural workers.
Chorley	...	...	...	...	Sewerage scheme,
Clitheroe	...	...	...	...	Efficient drainage system for parts of district.
Fylde	...	...	...	...	Extension of sewers in three townships. Water supplies for four townships. Extension of sewage works. Scavenging.
Garstang	...	...	...	...	Improved water supplies in parts of district. Scavenging. Sewerage scheme.
Lancaster	...	...	...	...	Public water supplies to four townships.
Leigh	...	...	...	...	Extension of sewers. Extension of water mains. Privy conversions.
Limehurst	...	...	...	...	Conversion of privies. Inspection of dairies and cow-sheds. Housing inspections.
Lunesdale	...	...	...	...	Sewering.
Preston	...	...	...	...	Further extensions of water supplies. Sewering. Privy conversions.
Sefton	...	...	...	...	.....
Ulverston	...	...	...	...	Sewerage schemes.
Warrington	...	...	...	...	Improved water supplies. Sewers for two townships. Prevention of flooding at Padgate and Orford.
West Lancashire	...	...	...	...	Scavenging and sewerage in part of district.
Whiston	...	...	...	...	Houses. Privy conversions. Refuse destructor.
Wigan	...	...	...	...	Sewers and sewage disposal. Privy conversions.

HOUSING.

General Housing Conditions.—Particulars have again been obtained from each County district as to :—

- (I) the general housing conditions ;
- (II) the extent of shortage or excess of houses and the measures taken or contemplated to meet any shortage ;
- (III) overcrowding, extent and causes ;
- (IV) unhealthy areas ; and
- (V) the local authority's housing scheme.

HOUSING CONDITIONS.—Under this heading the Medical Officers of Health of the following districts describe the housing conditions as unsatisfactory or not good :—Andenshaw, Carnforth, Chorley (B), Dalton-in-Furness, Droylsden, Lancaster (B), Padiham, Swinton and Pendlebury, Ulverston, Whitworth, and Ulverston (R).

SHORTAGE OF HOUSES.—In 84 districts Medical Officers of Health report a "shortage" of house accommodation, in some instances the deficiency being described as "acute" or "grave." In the following districts the extent of the shortage is given :—Ashton-under-Lyne (B), 350 ; Atherton, "considerable" ; Chorley (B), 100 ; Darwen (B), 100 ; Eccles (B), 800 ; Farnworth, 200-300 ; Golborne, "considerable" ; Haslingden (B), "decided shortage" ; Haydock, "considerable" ; Heywood (B), 300-400 ; Kearsley, 150 ; Lancaster (B), "acute" ; Lathom and Burscough, "grave" ; Lees, 70 ; Leigh (B), 1000 ; Middleton (B), 400 ; Ormskirk, 100-200 ;

Padiham, "great shortage"; Prescot, 600; Radcliffe, 200; Rawtenstall (B), 200; Royton, 160; Walton-le-Dale, 150; Whitefield, 250; Widnes (B), "acute shortage"; West Lancashire (R), 80; Whiston (R), "considerable shortage,"; &c.

OVERCROWDING is reported as "considerable" or "serious" at Denton, Eccles (B), Lancaster (B) (290 houses overcrowded), Leigh (B), Litherland, Middleton (B), Prescot, Rawtenstall (B), Swinton and Pendlebury (309 houses overcrowded), Waterloo-with-Scaforth, Westhoughton, Whitefield, Widnes (B), Warrington (R), &c.

LOCAL AUTHORITIES' HOUSING SCHEMES.—In about 66 districts the local authorities are taking steps to meet the housing shortage; the number of houses erected in 1927 by these authorities with State assistance numbered 4363, and 1233 were in course of erection by local authorities at the end of the year.

Houses built in 1927 with State assistance by other bodies or persons numbered 4898.

The total number of new houses erected in 1927 in the County area was 10,170, bringing the total since the termination of the war to 44,453.

Housing Statistics for the year 1927.—The following statement summarizes the housing work carried out in the Administrative County during the year 1927, and for comparison the preceding year's figures are given :—

	1926.	1927.
UNFIT DWELLING HOUSES—		
No. of houses inspected	39,796	38,836
No. inspected under Regulations	10,162	9,985
No. found unfit for habitation	243	577
No. found not reasonably fit	14,960	13,582
No. rendered fit as result of informal action ...	14,723	12,892

ACTION UNDER STATUTORY POWERS—

SECTION 3, HOUSING ACT, 1925—

No. of notices... ..	1,846	2,098
Rendered fit—By Owners	1,382	1,337
By L.A. in default	58	30
No. closed voluntarily	44	16
UNDER PUBLIC HEALTH ACTS—		
No. of notices	6,734	6,572
Defects remedied—By Owners	4,798	4,820
By L.A. in default	99	33

PROCEEDINGS UNDER SECTIONS 11, 14 AND 15, HOUSING ACT, 1925—

No. of Representations with view to Closing Orders	109	248
No. in respect of which Closing Orders made	87	197
No. of Closing Orders determined	24	15
No. in respect of which Demolition Orders made	23	46
No. demolished after Closing Orders	9	26
No. of houses demolished voluntarily by owners or converted to workshops ...	103	188

NEW HOUSES.—The number of new houses erected in the Administrative County area is stated to be as follows :—

	1926.	1927.
With State assistance under the Housing Acts :		
By Local Authorities	2,478	4,363
By other bodies or persons	4,465	4,898
Total new houses erected	8,397	10,170
No. of new houses in course of erection at end of each year under Local Authorities' building schemes	3,211	1,233

Table 12, pages 71 to 76, shows the extent of the housing work carried out in 1927 in each County district.

TABLE 12—HOUSING.

SUMMARY OF WORK CARRIED OUT DURING THE YEAR 1927.

NEW HOUSES ERECTED DURING YEAR.			UNFIT DWELLING HOUSES.				ACTION UNDER STATUTORY POWERS IN REGARD TO HOUSING.				No. of houses demol- ished volun- tarily by owners or con- verted to work- shops.													
Total.	With State Assistance.		No. of houses in course of erection under Council's building scheme or persons.	Total No. in- spect- ed for Housing defects.	No. in- spect- ed under Housing Regula- tions.	No. found unfit for habi- tation.	No. found not reason- ably fit for habi- tation.	No. rendered fit as result of informal action.	Under Section 3, Housing Act, 1925.															
	By L.A.	By other bodies or persons.							No. in which defects remedied.	No. in respect of which notices served to remedy defects.		No. in closed volun- tarily.	No. re- spect- ed of which serv- ing re- pairs.	No. in which defects remedied. By Local Author- ity in default of owners.	No. in which defects remedied. By owners.	No. in respect of which Closing Orders made.	No. of Closing Orders deter- mined, dwelling having been rendered fit.	No. in demol- ished in pursu- ance of Demoli- tion Orders.						
URBAN DISTRICTS.																								
Abram	16	150	15	3	60	50	15	15	...	1	50	50	...	1	...	...	...	...	...	...	...
Accrington (B)	216	44	...	94	138	...	...	...	...	94	...	...	...	...	...	...	...	...	...	...
Adlington	80	80	...	22	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ashton-in-Makerfield	815	257	14	303	152	...	...	...	...	128	102	...	...	...	...	...	...	...	...	...
Ashton-under-Lyne (B)	152	619	245	5	20	346	...	...	...	...	111	111	...	...	...	...	...	...	...	...	...
Aspull	278	126	4	260	171	...	...	...	...	55	44	3	...	...	...	...	...	...	...	13
Atherton	821	161	7	517	384	38	36	2	...	80	80	...	...	...	...	...	...	...	...	...
Audenshaw	146	21	4	142	135	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bacup (B)	92	27	27	...	...	...	12	12	...	...	19	19	...	...	...	...	...	...	...	...	7
Barrowford	58	20	...	10	10	...	...	...	...	38	34	...	...	...	...	...	...	...	...	4
Billinge-and-Winstanley	204	...	...	...	154	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Blackrod	43	31	1	31	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Brierfield	355	259	...	221	93	221	93	...	...	96	96	...	...	...	...	...	...	...	...	...
Carnforth	96	30	...	85	65	31	31	...	...	65	65	...	...	...	...	...	...	...	...	...
Chadderton	28	1302	80	2	1065	863	...	...	...	...	1065	863	1	...	...	...	...	...	...	...	35
Chorley (B)	1315	227	...	412	278	128	115	...	...	5	4	...	...	...	...	...	...	...	...	...
Church	66	8	...	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clayton-le-Moors	120	45	1	33	29	4	4	...	...	4	4	...	...	...	...	...	...	...	...	2
Clitheroe (B)	24	152	...	...	51	46	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE 12—continued.

NEW HOUSES ERECTED DURING YEAR.				UNFIT DWELLING HOUSES.				ACTION UNDER STATUTORY POWERS IN REGARD TO HOUSING.				No. of houses demol- ished volun- tarily by owners or con- verted to work- shops.					
With State Assistance.		No. of houses in course of erection under Council's building scheme	No. in- spect- ed for Housing Regula- tions.	No. found unfit for habi- tation.	No. found reason- ably fit for habi- tation.	No. rendered fit as result of informal action.	Under Section 3, Housing Act, 1925.		Under the Public Health Acts.		Proceedings under Sections 11, 14 and 15 of Housing Act, 1925.						
Total.	By L.A.						By other bodies or persons.	No. in which defects remedied.	No. in which defects remedied.	No. of Closing Orders deter- mined of which dwellings have been rendered fit.	No. of repre- sen- ta- tions with a view to making Closing Orders.		No. in respect of which Closing Orders made.	No. in which defects remedied. By Local Author- ity in default of owners.	No. of Closing Orders deter- mined of which dwellings have been rendered fit.	No. in respect of which Closing Orders made.	No. of demol- ished in pursu- ance of Demoli- tion Orders.
URBAN DISTRICTS.																	
Cole (B)	
Crompton	
Croston	
Dalton-in-Furness	
Darwen (B)	
Denton	
Droylsden	
Eccles (B)	
Failsworth	
Farnworth	
Fleetwood	
Formby	
Fulwood	
Golborne	
Grange-over-Sands	
Great Crosby	
Great Harwood	
Haslingden (B)	
Haydock	
Heysham	
Heywood (B)	
Hindley	

NEW HOUSES ERECTED DURING YEAR.										UNFIT DWELLING HOUSES.					ACTION UNDER STATUTORY POWERS IN REGARD TO HOUSING.						No. of houses demol- ished volun- tarily by owners or con- verted to work- shops.	
Total.			With State Assistance.		No. of houses in course of erection under Council's building scheme	Total No. in- spected for Housing defects.	No. in- spected under Housing Regula- tions.	No. found unfit for habita- tion.	No. found not reason- ably fit for habita- tion.	No. rendered fit as result of informal action.	Under Section 3, Housing Act, 1925.			Under the Public Health Acts.		Proceedings under Sections 11, 14 and 15 of Housing Act, 1925.						
			By L.A.	By other bodies or persons.							No. in respect of which notices served requiring repairs.	No. rendered fit.		No. in respect of which notices served to remedy defects.	No. in which defects remedied.		No. of repre- senta- tions with a view to making Closing Orders.	No. in respect of which Closing Orders made.	No. of Closing Orders deter- mined of which dwellings having been rendered fit.	No. in respect of which Demoli- tion Orders made.		No. demol- ished in pursu- ance of Demoli- tion Orders.
		By owners.			By Local Author- ity in default of owners.		By owners.	By Local Author- ity in default of owners.														
URBAN DISTRICTS.																						
Huyton-with-Roby	1	...	408	111	1	10	66	10	9	...	...	44	7	...	1	1	...	...
Ince-in-Makerfield	8	...	444	86	...	444	...	...	...	...	...	444	412	...	...	...	...	...
Irlam	22	...	88	42	...	57	30	20	20	...	...	8	8	...	...	...	...	3	
Kearsley	73	31	12	29	71	...	...	...	...	42	...	...	12	2	...	...
Kirkham	36	...	...	...	...	...	...	5	5	...	...	...	...	...	...	...	...	...
Lancaster (B)	125	...	501	93	31	468	330	139	126	...	2	31	33	2	15	76
Lathom and Burscough	20	22	70	35	...	...	...	...	...	...	...	1	1	...	...	...	...	...
Lees	31	...	158	26	...	23	5	16	2	...	...	55	54	...	...	...	...	3	
Leigh (B)	61	41	1012	204	...	1012	803	...	...	...	...	139	120	...	...	...	...	...
Leyland	60	...	138	75	...	22	9	13	7	...	...	...	...	...	...	...	...	...
Litherland	19	...	526	21	...	526	507	19	19	...	...	...	...	...	...	...	...	1	
Littleborough	7	...	79	79	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Little Crosby	28	26	...	...	4	...	...	...	...	...	...	...	...	...	...	...
Little Hulton	6	4	86	73	...	85	85	44	44	...	...	41	41	...	...	...	2	1	
Little Lever	8	...	14	14	14	...	8	6	6	...	...	...	...	...	...	...	2	...	
Longridge	25	...	25	25	...	8	8	...	...	...	...	...	...	...	...	...	...	...
Lytham Saint Anne's (B)	25	...	162	58	...	1	1	...	...	...	...	...	...	...	...	...	...	...
Middleton (B)	163	...	250	24	...	37	4	...	...	...	...	250	212	...	...	...	...	...
Milnrow	6	...	24	20	...	10	15	...	...	...	...	20	15	...	...	...	...	...
Morecambe (B)	81	20	63	28	1	11	10	...	...	...	...	1	1	...	...	...	...	1	
Mossley (B)	24	37	15	1	14	12	...	...	...	...	1	...	...	...	...	...	...
Nelson (B)	118	48	1737	144	...	49	39	6	4	2	...	3	3	...	...	...	...	...

TABLE 12—continued.

NEW HOUSES ERECTED DURING YEAR.				UNFIT DWELLING HOUSES.				ACTION UNDER STATUTORY POWERS IN REGARD TO HOUSING.						No. of houses demol- ished volun- tarily by owners or con- verted to work- shops.					
Total.		With State Assistance.		No. of houses in course of erection under Council's building scheme	Total No. in- spect- ed for Housing defects.	No. in- spect- ed under Housing Regula- tions.	No. found unfit for habi- tation.	No. found reason- ably fit for habi- tation.	No. rendered fit as result of informal action.	Under Section 3, Housing Act, 1925.			Under the Public Health Acts.		Proceedings under Sections 11, 14 and 15 of Housing Act, 1925.				
		By L.A.	By other bodies or persons.							No. in respect of which notices served requiring repairs.	No. rendered fit.		No. closed volun- tarily.		No. in respect of which notices served to remedy defects.	No. in which defects remedied.		No. of repre- sentations with a view to Closing Orders.	No. in respect of which Closing Orders made.	No. of Closing Orders deter- mined, dwelling having been rendered fit.	No. in respect of which Demoli- tion Orders made.	No. of demol- ished pursu- ance of Demoli- tion Orders.
	By Local Author- ity in default of owners.			By Local Author- ity in default of owners.	By owners.														
URBAN DISTRICTS.																			
Newton-in-Makerfield	154	48	48	3	12	7	5	5	...	...	...	...	...	...	...
Norden	72	72	1	58	20	8	8	...	29	29	...	...	...	...
Ormskirk	50	50	3	14	14	14	14	...	...	3	3	...	...	...
Orrell	103	103	27	84	41	...	...	...	15	26	...	...	...	...
Oswaldtwistle	568	118	21	460	291	28	28	...	85	62	...	...	...	...
Padiham	115	50	115	...	98	17	...	...	...	...	...	...	...	...
Poulton-le-Fylde	64	37	1	36	22	...	...	...	14	9	...	...	...	...
Preesall	17	...	1	15	...	...	...	...	...	...	...	...	...	...
Prescot	112	36	4	10	2	94	94	...	114	114	...	...	...	...
Prestwich	374	...	...	6	355	3	6	...	404	385	19	...	...	...
Radcliffe	56	34	16	18	40	3	3	...	22	20	...	16	...	1	
Raiaford	97	...	...	62	...	...	...	...	...	...	...	...	...	1	
Ramsbottom	64	60	...	41	38	...	...	...	...	...	...	...	...	...
Rawtenstall (B)	22	22	...	22	16	8	8	...	6	1	...	...	...	...
Rishton	29	10	...	10	6	1	1	...	...	...	...	...	...	...
Royton	24	24	2	4	18	...	...	...	...	...	2	2	...	...
Skelmersdale	109	47	...	...	47	...	...	...	...	...	...	...	...	...
Standish-with-Langtree	54	21	1	20	14	...	...	...	...	...	1	1	...	...
Stretford	117	29	2	79	76	9	...	...	14	12	2	1	...	...
Swinton and Pendlebury	182	714	439	2	292	172	151	123	5	9	6	2	2	1	...	
Thornton Cleveleys	315	158	...	...	...	...	...	...	215	215	...	...	...	...
Tottington	4	6	6	2	...	3	3	3	...	...	...	...	...	...	1	

URBAN DISTRICTS.										Proceedings under Sections 11, 14 and 15 of Housing Act, 1925.										No. of houses demolished voluntarily by owners or converted to workshops.													
URBAN DISTRICTS.										Under Section 3, Housing Act, 1925.					Under the Public Health Acts.			No. of Closing Orders determined, of which Closing Orders made.															
										Total.	With State Assistance.		No. of houses in course of erection under Council's building scheme	Total No. inspected for Housing defects.	No. in-spected under Housing Regulations.	No. found unfit for habitation.	No. found not reasonably fit for habitation.	No. rendered fit as result of informal action.	No. in respect of which notices served requiring repairs.		No. rendered fit.		No. in which defects remedied.	No. representations with a view to making Closing Orders.	No. in Closing Orders of which Closing Orders made.	No. in respect of which Demolition Orders made.	No. demolished in pursuance of Demolition Orders.						
											By L.A.	By other bodies or persons.									By owners.	By Local Authority in default of owners.						No. respect of which notices served to remedy defects.	By owners.	By Authority in default of owners.			
Turton	38	38	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tyldesley-with-Shakerley	80	55	25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ulverston	37	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Upholland	
Urnston	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Walton-le-Dale	11	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wardle	11	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Waterloo-with-Seaforth	1504	1391	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Westhoughton	45	33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitefield	12	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitworth	
Widnes (B)	1350	1307	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Withnell	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Worsley	46	25	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total Urban Districts	12522	12195	1926	1244	30	13	5962	4271	28	159	142	9	42	25	175											
RURAL DISTRICTS.																																	
Barton-upon-Irwell	2
Blackburn	67
Burnley	95	86	1	1	4	4
Bury	28	24	25	2

TABLE 12—continued.

NEW HOUSES ERECTED DURING YEAR.				UNFIT DWELLING HOUSES				ACTION UNDER STATUTORY POWERS IN REGARD TO HOUSING.										No. of houses demol- ished volun- tarily by owners or con- verted to work- shops.					
Total.		With State Assistance.		No. of houses in erection under Council's building scheme	Total No. in- spect- ed for Housing defects.	No. in- spect- ed under Housing Regula- tions.	No. found unfit for habita- tion.	No. found not reason- ably fit for habita- tion.	No. rendered fit as result of informal action.	Under Section 3, Housing Act, 1925.			Public Health Acts.		Proceedings under Sections 11, 14 and 15 of Housing Act, 1925.								
		By L.A.	By other bodies or persons.							No. in- spect- ed of which requir- ing repairs.	By owners.	By Local Author- ity in default of owners.	No. closed volun- tarily.	No. in which defects remedied.	By owners.	By Local Author- ity in default of owners.	No. of repre- senta- tions with a view to making Closing Orders.		No. in which Closing Orders deter- mined, dwelling having been rendered fit.	No. in respect of which Closing Orders made.	No. in respect of which Demoli- tion Orders made.	No. in- demol- ished in pursu- ance of Demoli- tion Orders.	
Chorley	76	12	63	330	209	4	251	121	51	51	2	79	79	...	4	2	...	...	...	...
Clitheroe	12	...	7	297	...	...	...	...	4	...	...	24	22	...	...	...	...	...	...	1
Fylde	137	...	...	575	47	...	17	15	...	...	...	54	49	5	...	...	...	...	...	1
Garstang	81	...	36	84	84	14	70	48	10	...	...	108	98	...	14	1	4	1	...	...
Lancaster	37	...	5	478	95	...	13	6	7	7	...	23	23	...	...	...	...	...	...	...
Leigh	31	...	31	603	96	...	2	2	...	...	...	76	71	...	...	...	...	...	...	...
Limchurst	6	...	4	167	18	5	110	96	5	1	...	13	13	...	...	...	...	...	...	1
Lunesdale	8	...	4	133	22	...	13	11	13	13	...	7	7	...	...	...	...	...	...	...
Preston	279	...	269	249	144	1	157	5	43	10	1	104	97	...	1	1	...	...	...	...
Sefton	33	...	...	669	640	10	19	23	...	...	...	8	8	...	...	...	...	...	...	...
Ulverston	19	...	19	189	131	4	105	18	...	...	...	14	8	...	...	2	...	...	...	...
Warrington	74	...	74	135	57	1	...	12	...	...	...	93	67	...	1	1	...	...	...	...
West Lancashire	226	90	136	182	94	43	122	104	1	...	...	...	...	...	40	...	...	...	...	3
Whiston	95	...	76	96	50	3	18	21	8	8	...	...	...	...	1	...	...	...	...	3
Wigan	5	...	...	45	2	3	40	38	4	2	...	3	3	...	...	...	...	...	...	...
Rural Districts...	1483	157	1022	4733	2010	108	1060	697	172	93	3	610	549	5	89	55	6	4	1	13
Urban Districts	8687	4206	3876	34103	7975	369	12522	12195	1926	1244	30	5962	4271	28	159	142	9	42	25	175
																							188

FINANCIAL ASSISTANCE FOR PURPOSES OF INCREASING HOUSING ACCOMMODATION.—In 1927, loans by Local Authorities amounting to £282,430 have been granted in respect of 791 houses, and subsidies of £401,531 have been paid in respect of 4,877 houses.

Table 13 shows the amount of the financial assistance granted in each of the County districts :—

TABLE 13—HOUSING, FINANCIAL ASSISTANCE.

URBAN DISTRICTS.				FINANCIAL ASSISTANCE FOR PURPOSES OF INCREASING HOUSING ACCOMMODATION.				URBAN DISTRICTS.				FINANCIAL ASSISTANCE FOR PURPOSES OF INCREASING HOUSING ACCOMMODATION.			
				Advances made during 1927.								Advances made during 1927.			
				By Loans.		By Subsidy.						By Loans.		By Subsidy.	
				No.	Amount	No.	Amount.					No.	Amount.	No.	Amount.
					£		£						£		£
Abram								Heysham				8	3985		
Accrington (B)						41	3750	Heywood (B)						56	5360
Adlington						19	1560	Hindley							
Ashton-in-Makerfield ...				14	5120	18	1350	Horwich				4	1525	17	1700
Ashton-under-Lyne (B) ...						29	2900	Huyton-with-Roby ...						1	75
Aspull								Ince-in-Makerfield ...						7	455
Atherton						35	1500	Irlam						22	1606
Audenshaw						45	3940	Kearsley							
Bacup (B)						5	500	Kirkham						43	3225
Barrowford						12	875	Lancaster (B)				13	4355	125	9875
Billinge-and-Winstanley ...						4	400	Lathom and Burscough ...						20	1800
Blackrod								Lees						28	2680
Brierfield						30	1750	Leigh (B)						25	1875
Carnforth								Leyland				23	8583	135	13180
Chadderton				31	11940	87	8700	Litherland						19	1115
Chorley (B)				74	25975	79	7855	Littleborough						7	525
Church						4	400	Little Crosby							
Clayton-le-Moors						26	2600	Little Hulton				3	900	6	377
Clitheroe (B)						15	1125	Little Lever				5	1300	8	600
Colne (B)						24	1800	Longridge						25	1900
Crompton				14	5029	13	1250	Lytham Saint Anne's (B)				1	170	25	2500
Croston						2	150	Middleton (B)						201	20100
Dalton-in-Furness								Milnrow						6	600
Darwen (B)						95	6739	Morecambe (B)				3	1204	81	5975
Denton						67	5025	Mossley (B)							
Droylsden						11	825	Nelson (B)						117	11700
Eccles (B)				1	400	27	2400	Newton-in-Makerfield ...				65	29763	85	8500
Failsworth						35	3500	Norden						15	1500
Farnworth				6	2425	15	1450	Ormskirk						42	3150
Fleetwood				70	3650	134	9975	Orrell							
Formby						39	2925	Oswaldtwistle				21	7830	26	2325
Fulwood				2	1170			Padiham							
Golborne						3	300	Poulton-le-Fylde						8	600
Grange-over-Sands						18	1705	Preesall				12	6750	21	1680
Great Crosby						148	11100	Prescot				17	5350	28	2800
Great Harwood						57	5150	Prestwich						127	9300
Haslingden (B)				2	800	3	300	Radcliffe				8	3375	78	7800
Haydock				1	392	63	6300	Rainford						1	75

TABLE 13—*continued.*

URBAN DISTRICTS.	FINANCIAL ASSISTANCE FOR PURPOSES OF INCREASING HOUSING ACCOMMODATION.				RURAL DISTRICTS.	FINANCIAL ASSISTANCE FOR PURPOSES OF INCREASING HOUSING ACCOMMODATION.			
	Advances made during 1927.					Advances made during 1927.			
	By LOANS.		By SUBSIDY.			By LOANS.		By SUBSIDY.	
	No.	Amount.	No.	Amount.		No.	Amount.	No.	Amount.
		£		£			£		£
Ramsbottom			12	900	Barton-upon-Irwell			181	14265
Rawtenstall (B)			52	3800	Blackburn			51	3825
Rishton			13	1105	Burnley			48	4140
Royton			43	4300	Bury			2	150
Skelmersdale					Chorley			63	4575
Standish-with-Langtree			5	500	Clitheroe			7	575
Stretford	197	80671	314	23025	Fylde				
Swinton & Pendlebury	1	192	93	7275	Garstang			36	2675
Thornton Cleveleys	10	1738	249	18575	Lancaster			5	375
Tottington			10	750	Leigh			35	3500
Trawden					Limehurst	4	1960	4	400
Turton			21	1525	Lunesdale			4	300
Tyldesley-with-Shakerley			4	390	Preston			257	19225
Ulverston	8	800	8	800	Sefton				
Upholland	9	2975	25	2500	Ulverston			7	525
Urmston					Warrington			66	4825
Walton-le-Dale	64	20204	47	3760	West Lancashire			85	5725
Wardle					Whiston			76	7380
Waterloo-with-Seaforth	77	33350	174	13079	Wigan			5	375
Westhoughton	13	4835	39	3760					
Whitefield	6	2114	88	6500					
Whitworth									
Widnes (B)			56	4750					
Withnell			2	200	TOTALS—				
Worsley	4	1600	82	6150	Rural Districts	4	1960	932	72835
					Urban Districts	787	280470	3945	328696
Urban Districts... ..	787	280470	3945	328696	Administrative County	791	282430	4877	401531

The following are some of the comments made by local Medical Officers of Health on the housing question :—

Chorley (B).—A certain amount of overcrowding still exists . . . the general causes are shortage of houses to let, and economic factors. Certain unhealthy areas have been scheduled, and a scheme is in hand for the improvement of these areas as soon as circumstances permit.

Colne (B).—There are about 700 back-to-back and about 500 single houses in the district.

Heywood (B).—The provision of 128 houses for the working classes by the Corporation, although a highly commendable step, has had little or no effect in the dilution of the numbers living in the slum areas. That 400 applicants for new houses still remain unsatisfied shows the need for further expansion in this overdue sanitary reform. There are many of this number living in houses for which the best remedy can only be demolition, the repairing of these is out of the question. Such property is not worth the necessary money which would be required to make it fit for habitation.

Haydock.—The supply of workmen's cottages is inadequate for the needs of the district. Private enterprise is endeavouring to remedy this long-felt want, and the Council is recommended to make further effort to increase the number.

Lancaster (B).—When considering the need for more houses, regard should be had to the number of unfit houses still remaining as well as to the number of families in lodgings. There are 397 back-to-back houses.

Oswaldtwistle.—The chief difficulty found in remedying unfitness has been the cost of labour and material.

Worsley.—The overcrowding problem is still unsolved ; several bad cases are existent.

Clitheroe (R).—There is still a considerable number of single and back-to-back houses, and also a definite shortage of suitable houses.

Ulverston (R).—In some cases working-class dwellings are unfit for habitation, and in a great many more instances the houses are below a reasonable standard of fitness.

The Housing (Rural Workers) Act, 1926.—This Act received the Royal Assent on the 15th December, 1926, its object being to secure a contribution to the improvement of housing conditions for agricultural labourers and other country workers by facilitating the reconditioning of old houses in such a way as to bring them up to the modern standards of comfort and sanitation, and by the conversion into dwellings of buildings not previously used as dwellings.

To this end the Act provides for assistance both by grants (towards which Exchequer contributions will be available), and by loans. The Act attaches conditions to the grants of public money which are designed to secure that the benefits shall go almost entirely to the tenants and not to the landlords.

The Act is administered by local authorities in accordance with schemes approved by the Minister of Health.

The local authorities for the purposes of this Act are the County Council or the County Borough Council, but the Minister, on application of any County district before the 31st March, 1927, may, after consultation with the County Council, declare that the town or urban or rural district council be the local authority for the purposes of the Act.

Under this proviso, the powers and duties under the Act were delegated to the following 40 districts :—

Non-County Boroughs (17) :—

Accrington	Darwen	Lancaster	Morecambe
Bacup	Eccles	Leigh	Mossley
Chorley	Haslingden	Lytham St. Anne's	Nelson
Clitheroe	Heywood	Middleton	Rawtenstall
Colne			

Urban Districts (20) :—

Farnworth	Newton-in-Makerfield	Tyldesley-with-Shakerley
Horwich	Precsall	Upholland
Lathom and Burscough	Ramsbottom	Wardle
Litherland	Rishton	Westhoughton
Littleborough	Stretford	Whitworth
Little Hulton	Swinton and Pendlebury	Worsley
Milnrow	Trawden	

Rural Districts (3) :—

Bury	Clitheroe	Whiston
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COUNTY COUNCIL SCHEME.—The following is a copy of the County Council's scheme which was approved by the Minister of Health :

SCHEME made by the Lancashire County Council, pursuant to Section 1 of the Act, with respect to the reconstruction and improvement of houses or the conversion of buildings into dwellings for agricultural workers and others of like economic condition in the area of the Administrative County of Lancaster with the exception of those County Districts whose Councils may be declared by the Minister of Health to be Local Authorities for the purposes of the Act.

1. ASSISTANCE may be given either by way of grant or by way of loan, or partly by way of grant and partly by way of loan.

2. The premises in respect of which assistance may be given shall be houses or buildings for agricultural workers and for persons whose economic condition is substantially the same as that of such workers, and the premises shall be dwellings, the value of which after completion of the proposed work shall not exceed, according to a valuation to be made on behalf of the County Council, the sum of £400, free of all charges (including ground rent, if any), provided that in arriving at the value of any dwelling any carving or panelling shall not be taken into account.

3. No ASSISTANCE under the Act shall be given—

- (a) for works of ordinary repair or upkeep, except in so far as they are incidental to or connected with any of the works mentioned in clause 5 hereof ; or
- (b) where the estimated cost of the works to be executed in respect of the dwelling is less than fifty pounds ;
 Provided that, where the proposed works will constitute an improvement to two or more dwellings by way of the provision of water supply, drainage, or other works for the joint benefit of the dwellings, assistance may be given if the estimated total cost of the works (including the cost of any works to be executed in connection with the joint works, but separately in respect of the several dwellings or any of them) is not less than one hundred pounds ; or
- (c) unless the application for assistance is received by the Clerk of the County Council, County Offices, Preston, before the first day of October, nineteen hundred and thirty-one ; or
- (d) where the interest of the applicant in the house or building in respect of which the works are to be executed is a leasehold interest only, unless that interest is for a term of years absolute of which a period of not less than thirty years remains unexpired at the date of the application ; or
- (e) unless the County Council are satisfied that the dwelling will after the completion of the works be in all respects fit for habitation as a dwelling by persons of the working classes ; or
- (f) if it appears to the County Council that the house or building in respect of which the works are to be executed cannot, by reason of the narrowness, closeness or bad arrangement or condition of the streets or buildings in the immediate neighbourhood thereof, be converted into a dwelling or dwellings which is or are in all respects satisfactory, or, in the case of a house or building to which any historic, architectural, or artistic interest attaches, that the proposed works would destroy or seriously diminish that interest ; or
- (g) unless the consent of the County Council is obtained before any of the work, in respect of which assistance is desired, has been started.

4. Applications for assistance shall be made on *Form I.* in the Appendix hereto, with such additions and variations as may be necessary.

5. ASSISTANCE may be given—

(1) for the conversion into dwellings of any buildings suitable for such conversion, but not previously used for that purpose ;

(2) for the improvement of existing dwelling accommodation. The expression “improvement” means any structural improvement other than ordinary repairs which are not incidental to or connected with an improvement, and includes amongst other things :—

- (a) the rebuilding of walls, chimneys or other parts ; the pointing or roughcasting or other substantial repairs to walls ; the raising of roofs ; the renewing of roof timbers ; the provision of rainwater gutters or pipes ; the provision of damp courses or of cement plinth or surface channelling ; the enlargement or the provision of additional windows.
- (b) the improvement of existing accommodation to provide more adequate air space or head room, the addition of further bedroom accommodation, a bathroom, scullery or wash-house, food larder and a fuel store or barn if other structural works are included, or such other additions as may be necessary to bring the dwelling up to modern standards.
- (c) the provision of wells, pumps, cesspools, septic tanks, filters or simple surface irrigation works, with the necessary drains, chambers, gulleys, ventilators, etc.
- (d) the provision of a water or earth closet or pail closet in place of a privy. The provision of a bath, copper or sink or the introduction of gas or electricity.

6. The works shall be commenced within six weeks of the certificate of approval of the proposed works, and shall be completed within a period of six months from the date of such certificate, unless the consent of the County Council to an extension of either period is obtained for some special reason.

7. The estimated number of dwellings to be dealt with under this scheme, during the financial year ending the 31st March, 1928, is 50, but this number may be extended by the County Council, with the approval of the Minister of Health.

8. The forms contained in the Appendix hereto shall be used as far as possible.

CONDITIONS OF GRANTS.

9. Where assistance is given by way of grant it shall take the form of (a) a lump sum payment to be made after the completion of the works ; or (b) the provision, during a period not exceeding twenty years, of any part of any periodical sums which may be payable to any persons by way of interest on or repayment of advances made by those persons for the purpose of the works. The grant shall not exceed either :—

- (i.) Two-thirds of the estimated cost of the works in respect of which the grant is made ; or
- (ii.) The sum of £100 in respect of each dwelling.

Grants shall be calculated and paid on the basis of an estimate of cost submitted with *Form I.* and approved by the County Council, and the amount of grant promised at the time of the original application shall not be varied by reason of an increase in the actual cost as compared with the approved estimate. Grants may vary from a minimum of £33 6s. 8d. up to a maximum of £100.

10. The maintenance of conditions prescribed by Section 3 of the Act shall be secured by periodical inspections by the County Council's or other authorised Officers, who shall obtain in the month of April in each year a signed statement from the recipient of the grant certifying that those conditions have been observed during the year to 31st March then last past.

CONDITIONS OF LOANS.

11. The loan, with interest at the prescribed rate, shall be secured by a mortgage of the dwelling, which will be prepared by the County Council at the expense of the borrower.

12. The amount of the principal of the loan shall not exceed 90 per cent. of the value which, in the opinion of the County Council, the mortgaged security will bear after the completion of the works, nor the estimated cost of those works. Loans may vary in amount from a minimum of £50 up to a maximum of £360.

13. The mortgage deed shall provide for repayment being made by instalments of principal, with interest on the balance outstanding, or by an annuity of principal and interest combined payable half-yearly during a term to be agreed, so, however, that in the event of any of the conditions subject to which the advance was made not being complied with in relation to the dwelling, or any instalment being in arrear, the balance for the time being unpaid shall become repayable on demand by the County Council.

14. Advances may be made on the certificates of the authorised officer of the County Council as the works progress, up to one moiety of the value for the time being of the mortgaged security, and the remainder shall be advanced on receipt by the County Council of the certificate of completion, and on their being satisfied that the works have been executed in accordance with the terms and conditions thereof.

15. The loan shall not be made except after a valuation duly made on behalf of the County Council.

16. If so agreed, a loan may be secured on lands of which the site of the dwelling in respect of which the loan is being made forms part, but nothing in this provision shall authorise the County Council to lend more than the sum which they would have been authorised to lend had the loan been secured only on the dwelling.

Appended :—

Form I. Application for assistance.

Form II. Particulars of house for which assistance is asked.

Form III. Certificate of approval of work.

Form IV. Certificate of completion of work.

Section 3 of Act (copy of). Showing the conditions attached to dwellings in respect of which assistance has been given by way of grant.

GRANTS.—To date, July, 1928, the County Council has dealt with 18 applications for financial assistance.

Of this number the Public Health and Housing Committee recommended the Finance Committee to make grants in respect of 5, the grants amounting to £580.

In 4 cases the applications did not come within the provisions of the Act ; in 7 the applications were not proceeded with ; in one case the applicant died ; and one is still under consideration.

Joint Town Planning Committees.—The following Joint Town Planning Committees have been formed :—

The Manchester and District Joint Town Planning Advisory Committee, as formerly constituted, comprised the following authorities :—

Lancashire	...	7	County Boroughs	Cheshire	...	4	Boroughs
		9	Boroughs			18	Urban Districts.
		40	Urban Districts			5	Rural Districts
		6	Rural Districts				
Derbyshire	...	2	Boroughs	Yorkshire	...	2	Urban Districts
		3	Rural Districts.				

This Joint Committee has proceeded with a scheme for the formation of Decentralised Area Joint Town Planning Committees, and eight of the Committees have been established and are functioning in respect of the following districts :—

Bolton and district.
Bury and district.
Chorley and district.
Leigh and district.

Manchester and district.
Rochdale and district.
Warrington and district.
Wilmslow and district (North Cheshire).

These 8 Decentralised Area Committees are representative of 53 local authorities, and with the exception of the Rochdale and District and Wilmslow and District Committees are associated with the newly-constructed Advisory Committee. Statutory Committees are now being formed for Areas based on the following centres, and it is expected that these Committees will shortly be functioning :—

Ashton, Stalybridge and district.
Buxton and district.
Oldham and district.

Stockport, Macclesfield and district.
Wigan and district.
Rossendale Valley.

These districts represent 46 local authorities.

The Lancaster, Morecambe and District Joint Town Planning Advisory Committee :—

Lancaster Borough.
Morecambe Borough.
Carnforth Urban District.
Heysham Urban District.
Lancaster Rural District.

Regional Town Planning Advisory Committee for South West Lancashire :—

4 County Boroughs.
1 Borough.
9 Urban Districts.
3 Rural Districts.

North-East Lancashire Joint Town Planning Advisory Committee :—

Lancashire :

2 County Boroughs.
5 Boroughs.
7 Urban Districts.
4 Rural Districts.

Yorkshire :

2 Urban Districts.
2 Rural Districts (parts of).

The Preston and District Joint Town Planning Committee :—

1 County Borough.
3 Urban Districts.
1 Rural District (part).

The Fylde Region Joint Town Planning Advisory Committee :—

1 County Borough.
1 Borough.
4 Urban Districts.
2 Rural Districts.

TOWN PLANNING SCHEMES.—Under Section 3 of the Town Planning Act, 1925, the Council of every borough or other urban district containing a population, according to the 1921 census, of more than 20,000 *shall*, before the 1st January, 1929, prepare and submit to the Minister of Health a town planning scheme in respect of all the land within the borough or urban district in respect of which a town planning scheme may be made under the Act.

There are 15 boroughs and 9 urban districts in the County area within the above designation, and 14 boroughs and 7 urban districts have taken some action in the preparation of town planning schemes. Some of these areas come within the schemes in process of formation by the Regional Committees set out above.

In addition, 2 boroughs, 27 urban and 2 rural districts in the County, with a population of less than twenty thousand at the last census, have also taken some action under the Town Planning Act.

INSPECTION AND SUPERVISION OF FOOD.

Milk Supply.—The Ministry's Circular 834 requires each local Medical Officer of Health to include in his annual report a statement as to the action taken with regard to milk, including inspection of farms and dairies, the administration of the Milk and Dairies Order, 1926, and the Milk (Special Designations) Order, 1923.

The 1926 Order only came into operation on the 1st October, 1926, but since that date progress has been made in many County districts in regard to improvements at farm premises. In 38 districts 375 notices were served during 1927, requiring additional window area in farm buildings, 226 of which have been complied with. In 42 districts owners have voluntarily undertaken works of improvement, including remodelling of cowsheds, concreting floors and cementing walls, additional windows and improved ventilation, provision of water supplies, &c. In at least two instances the cost of this work voluntarily undertaken was £500.

Certain clauses of the 1926 Order relating to condition of premises probably necessitating structural alterations, and to the dairy equipment do not become operative until later dates, but immediate steps can be taken, with little cost, for improving the conditions under which much of the milk supply is produced. Cleanliness of cowsheds, grooming of cattle, personal cleanliness of the farm employees are important factors in the production of clean milk. Where these are carefully observed, even on premises far from ideal in structure, clean milk can be produced.

In the local reports many references are made to the steps taken or recommended for improving the milk supply, more particularly in the matter of cleanliness. Tests for visible dirt have been demonstrated to the milk producers with, it is stated, fairly satisfactory results. The Medical Officer of Health of Radcliffe states that as a general rule in the purchase of foodstuffs, purity and cleanliness are the deciding factors, yet milk is accepted which is obviously unclean, and it is taken for granted that a certain proportion of dirt is unavoidable in the daily milk supply. Transfer of custom from retailers of milk not up to standard to vendors who produce clean milk would, he says, very soon drive the careless and indifferent members of the milk producing industry out of the trade, or compel them to mend their ways and adopt the methods of their more painstaking and conscientious colleagues.

At Horwich addresses were given by the local and by the County Council public health staff to farmers and the general public on the need of a clean and pure milk supply. At Farnworth a clean milk exhibition was held.

DAIRIES, COWSHEDS AND MILKSHOPS.—The number of cowkeepers and dairymen or purveyors of milk in each district is shown in Table 14:—

TABLE 14—DAIRIES, COWSHEDS AND MILKSHOPS.

URBAN DISTRICTS.	COWKEEPERS.		DAIRYMEN OR PURVEYORS OF MILK.	Arrangements for Veterinary Inspection of Dairy Cows.
	Number.	Number of Inspections.	Number.	
Abram	14	24	2	...
Accrington (B)	40	80	89	Yes.
Adlington	16	32	34	...
Ashton-in-Makerfield	42	115	6	When required.
Ashton-under-Lyne (B)	7	53	101	Yes.
Aspull	14	64	9	When required.
Atherton	19	45	17	Yes.
Audenshaw	10	56	16	...
Bacup (B)	94	131	3	When required.
Barrowford	33	60	3	...
Billinge-and-Winstanley	44	90	5	...
Blackrod	31	14	1	...
Brierfield	7	12	26	...
Carnforth	20	40	7	...
Chadderton	40	30	81	When required.
Chorley (B)	27	91	53	Yes.
Church	4	8	9	...

TABLE 14—*continued.*

URBAN DISTRICTS.	COWKEEPERS.		DAIRYMEN OR PURVEYORS OF MILK.	Arrangements for Veterinary Inspection of Dairy Cows.
	Number.	Number of Inspections.	Number.	
Clayton-le-Moors	9	30	3	...
Clitheroe (B)	28	68	11	...
Colne (B)	81	293	31	Yes.
Crompton	43	95	24	...
Croston	23	46	...	...
Dalton-in-Furness	52	183	4	When required.
Darwen (B)	82	152	41	When required.
Denton	23	84	40	When required.
Droylsden	13	34	56	...
Eccles (B)	5	37	101	Yes.
Failsworth	14	159	34	...
Farnworth	12	127	64	Yes.
Fleetwood	8	28	42	...
Formby	21	49	2	...
Fulwood	33	33	16	When required.
Golborne	13	40	6	...
Grange-over-Sands	11	44	1	When required.
Great Crosby	15	86	3	...
Great Harwood	20	45	11	...
Haslingden (B)	76	80	3	When required.
Haydock	15	60	4	...
Heysham	13	1	9	...
Heywood (B)	50	180	9	When required.
Hindley	30	143	4	When required.
Horwich	36	169	28	...
Huyton-with-Roby	13	39	3	...
Ince-in-Makerfield	4	30	19	...
Irlam	19	49	34	...
Kearsley	4	12	30	...
Kirkham	11	92	1	...
Lancaster (B)	22	22	76	Yes.
Lathom and Burscough	6	18	2	...
Lees	2	4	29	When required.
Leigh (B)	57	57	47	Yes.
Leyland	54	60	2	...
Litherland	8	16	11	When required.
Littleborough	65	164	1	...
Little Crosby	5	20	...	...
Little Hulton	12	24	6	...
Little Lever	11	31	12	...
Longridge	32	75	1	...

TABLE 14—*continued.*

URBAN DISTRICTS.	COWKEEPERS.		DAIRYMEN OR PURVEYORS OF MILK.	Arrangements for Veterinary Inspection of Dairy Cows.
	Number.	Number of Inspections.	Number.	
Lytham Saint Anne's (B) ...	32	192	32	Yes.
Middleton (B)	78	88	10	Yes.
Milnrow	82	221	2	...
Morecambe (B)	11	50	72	Yes.
Mossley (B)	16	41	25	When required.
Nelson (B)	32	194	60	Yes.
Newton-in-Makerfield	19	42	22	...
Norden	65	70	2	...
Ormskirk... ..	2	15	8	...
Orrell	15	80	19	...
Oswaldtwistle	84	94	5	...
Padiham	12	31	36	When required.
Poulton-le-Fylde	10	20	2	...
Presall	40	5	15	...
Prescot	4	42	6	...
Prestwich	15	140	21	Yes.
Radeliffe	21	36	20	...
Rainford	16	4	10	...
Ramsbottom	56	392	4	...
Rawtenstall (B)... ..	212	251	2	...
Rishton	29	68	23	When required.
Royton	24	Frequent.	18	Yes.
Skelmersdale	9	30	15	...
Standish-with-Langtree	31	37	2	...
Stretford	5	54	138	When required.
Swinton and Pendlebury	12	126	46	Yes.
Thornton Cleveleys	34	40	14	When required.
Tottington	52	89	2	...
Trawden	85	93	...	Yes.
Turton	212	423	127	...
Tyldesley-with-Shakerley	28	45	10	...
Ulverston	25	300	11	When required.
Upholland	45	70	6	...
Urmston	8	16	19	...
Walton-le-Dale	69	135	16	...
Wardle	37	56	37	...
Waterloo-with-Seaforth	20	134	27	...
Westhoughton	88	186	...	...
Whitefield	8	65	24	Yes.
Whitworth	41	102	...	When required.
Widnes (B)	26	72	52	Yes.

TABLE 14—continued.

URBAN DISTRICTS.	COWKEEPERS.		DAIRYMEN OR PURVEYORS OF MILK.	Arrangements for Veterinary Inspection of Dairy Cows.
	Number.	Number of Inspections.	Number.	
Withnell	35	45	...	...
Worsley	17	114	16	When required.
Total Urban Districts	3275	8236	2259	
RURAL DISTRICTS.				
Barton-upon-Irwell	41	69	11	...
Blackburn	350	878	1	...
Burnley	392	396	...	When required.
Bury	109	120	5	...
Chorley	276	170	3	...
Clitheroe	181	187	1	...
Fylde	422	509	27	...
Garstang	566	350	2	...
Lancaster	335	161	4	...
Leigh	62	210	3	...
Limehurst	77	60	2	...
Lunesdale	411	186	1	...
Preston	662	71	18	When required.
Sefton	31	140	...	...
Ulverston	207	550	5	When required.
Warrington	68	136	14	...
West Lancashire	64	174	13	...
Whiston	150	250	5	When required.
Wigan	139	60	6	...
Total Rural Districts	4543	4677	121	
Total Administrative County ...	7818	12913	2380	

THE MILK AND DAIRIES (CONSOLIDATION) ACT, 1915.—TUBERCULOUS MILK.—The administration of this Act (which came into operation in September, 1925) and the Milk and Dairies Order of 1926, has thrown, directly and indirectly, very considerable work upon the County Council Public Health Department. The County Council is responsible for dealing with the occurrence in their area of diseases in dairy cattle likely to cause illness to the persons consuming the milk. The tracing of the animals from which the infected milk samples reported to the County Medical Officer by the local Medical Officer have been derived is now an important section of the work of the County Health Department. In this connection during the year 1927 the department sub-

mitted 413 samples of milk for examination for tubercle bacilli. Three hundred and seventy-two of these were taken as the result of notifications from local authorities under the Milk and Dairies (Consolidation) Act, 1915, that tubercle bacilli had been found in the local milk supply. In each case one of the veterinary surgeons retained by the County Council visited the farm and examined the cattle, and at the same time, one of the County Sanitary Officers inspected the farm premises. Of the 372 samples submitted, 71 proved positive. The animals examined numbered 2,056. Where tubercle bacilli are found, steps are taken to find the affected animal and unless the particular cow has already been slaughtered, the facts are reported to the County Agricultural Department for action under the Tuberculosis Order of 1925. The Medical Officer of the district from which the original notification came is informed of the steps taken and of the result. Defects noted on the farm premises during these inspections are reported to the local health authority.

In addition to the above examinations of milk for tubercle, the officials of 30 local authorities submitted 486 samples for examination; 64 were found positive. Local action is reported from 25 districts in regard to tuberculous cattle.

The County public health staff also paid visits during 1927 to farms for many other purposes, for example, re the issue of licences for the production and distribution of "Grade A" milk, re-inspections of "Grade A" farms, visits in connection with a Clean Milk Competition (referred to in the following paragraphs), for the inspection of new buildings, plant, &c., at the request of local authority or farmer, general inspections in connection with sanitary surveys of districts, complaints, &c.

The County staff visits to farms in 1927 totalled 518.

CLEAN MILK COMPETITIONS, NOS. 4 AND 5.—The County Council, through the Public Health Department, again assisted the Lancashire County Milk Recording Society in connection with their clean milk competitions, Nos. 4 and 5. In the No. 4 competition there were 15 competitors; this year (1928) there are 11 competitors.

The competition No. 4 extended over a period of six months. Six samples of milk, three night and three morning, were taken from each herd and submitted for bacteriological examination to the Director, Public Health Laboratory, Manchester.

The method of sampling was as follows:—The Chief County Sanitary Officer paid surprise visits to the various farms, and on each occasion took a sample of the milk for bacteriological examination. The sample was drawn from the tankard by means of a sterilised dipper as soon as possible after the milk had passed over the cooler. The samples were then forwarded by train to the laboratory in special boxes fitted with an ice compartment.

In addition to the taking of samples, surprise visits were paid to each competitor's farm at milking time, and marks were awarded for:—

- (1) The general health of the cows,
- (2) The suitability and care of the utensils and other equipment used,
- (3) The general method of handling the milk.

Awards were made on the following scale:—

Examination of Milk.				Number of Marks.		
Bacterial count	...	...	...	400		
Presence or absence of B. Coli	...		...	300		
Extraneous matter test	...	...	...	50		
Keeping qualities	...	...	...	50	...	800
				<hr/>		
Analysis (butter fat and solids)	...	...	...	100		
Inspection on the Farm.						
Health of cows	...	...	...	400		
General management	...	...	...	200	...	600
				<hr/>		
				1,500		
				<hr/>		

Results of the Competition.—The results of the Competition from the bacteriological point of view were excellent. Eight competitors, as compared with three in No. 3 Competition, exceeded the bacteriological standard required by the Ministry of Health for granting Licences for “ Certified ” Milk, and two other competitors reached this standard as regards five of the six samples taken. Of the remaining five competitors, three reached the bacteriological standard required for “ Grade A ” milk.

In arriving at the awards, careful consideration was given to the reports and observations of the Director and Bacteriologist of the Public Health Laboratory of the University of Manchester.

The detailed results of the bacteriological examination of the milks are given in the following statement :—

Sample No.	Cultivation. Bacteria growing on standard agar at 37° C. in 48 hours. per c.c.	B. Coli. Present = + Absent = —			Dirt Estimation. parts per 100,000		
		1·0 c.c.	0·1 c.c.	0·01 c.c.	Cells and Cellular Products	Extran- eous Materials	Total Sediment
“ T,” 1.	857	—	—	—	8	Trace	8
2.	610	—	—	—	15	„	15
3.	710	—	—	—	7	4	11
4.	240	—	—	—	4	3	7
5.	890	—	—	—	6	Trace	6
6.	290	—	—	—	6	1	7
“ H,” 1.	1,420	—	—	—	30	Trace	30
2.	220	—	—	—	34	„	34
3.	3,000	—	—	—	15	„	15
4.	670	—	—	—	2	2	4
5.	480	—	—	—	16	Trace	16
6.	1,027	—	—	—	17	3	20
“ P,” 1.	2,650	—	—	—	17	Trace	17
2.	2,500	—	—	—	4	„	4
3.	1,240	—	—	—	4	2	6
4.	310	—	—	—	6	4	10
5.	570	—	—	—	8	2	10
6.	1,454	—	—	—	6	2	8
“ H & S,” 1.	170	—	—	—	7	Trace	7
(1) 2.	290	—	—	—	44	„	44
3.	130	—	—	—	27	„	27
4.	160	—	—	—	10	„	10
5.	360	—	—	—	4	„	4
6.	290	+	+	+	2	2	4
“ H & C,” 1.	1,297	+	—	—	35	Trace	35
2.	4,000	—	—	—	12	„	12
3.	860	—	—	—	12	„	12
4.	190	—	—	—	4	3	7
5.	416	—	—	—	3	5	8
6.	150	—	—	—	12	6	18
“ B,” 1.	190	—	—	—	5	3	8
2.	30	—	—	—	8	Trace	8
3.	260	—	—	—	2	3	5
4.	80	+	—	—	9	7	16
5.	30	+	—	—	6	Trace	6
6.	726	—	—	—	9	3	12
“ B & F,” 1.	730	—	—	—	12	Trace	12
2.	390	—	—	—	30	8	38
3.	180	—	—	—	8	Trace	8
4.	120	—	—	—	4	„	4
5.	350	+	—	—	14	7	21
6.	700	+	—	—	14	Trace	14
“ H & S,” 1.	950	—	—	—	10	Trace	10
(2) 2.	5,850	—	—	—	42	„	42
3.	10,500	+	—	—	12	3	15
4.	220	—	—	—	15	Trace	15
5.	690	—	—	—	12	„	12
6.	2,800	—	—	—	9	1	10

Sample No.	Cultivation. Bacteria growing on standard agar at 37° C. in 48 hours. per c.c.	B. Coli. Present = + Absent = -			Dirt Estimation. parts per 100,000		
		1·0 c.c.	0·1 c.c.	0·01 c.c.	Cells and Cellular Products	Extran- eous Materials	Total Sediment
“ G,”	1. 710	—	—	—	3	Trace	3
	2. 1,000	+	—	—	4	„	4
	2. 520	—	—	—	32	„	32
	4. 250	—	—	—	1	3	4
	5. 710	—	—	—	2	2	4
	6. 900	+	+	+	6	2	8
“ C I,”	1. 11,900	—	—	—	10	7	17
	2. 1,880	+	—	—	32	4	36
	3. 1,173	—	—	—	12	4	16
	4. 953	—	—	—	6	Trace	6
	5. 15,600	—	—	—	15	3	18
	6. 2,550	+	—	—	16	10	26
“ W,”	1. 647	—	—	—	16	Trace	16
	2. 7,200	—	—	—	18	4	22
	3. 5,550	—	—	—	10	Trace	10
	4. 7,750	—	—	—	8	„	8
	5. 4,000	+	—	—	14	„	14
	6. 3,600	+	+	—	12	4	16
“ D,”	1. 130,000	+	—	—	100	Trace	100
	2. 180	—	—	—	20	„	20
	3. 180	—	—	—	20	„	20
	4. 1,080	—	—	—	5	„	5
	5. 27,000	—	—	—	11	„	11
	6. 2,073	—	—	—	26	„	26
“ I,”	1. 33,000	+	—	—	4	4	8
	2. 42,000	+	—	—	7	8	15
	3. 830	—	—	—	14	Trace	14
	4. 370	—	—	—	7	5	12
	5. 1,313	+	—	—	4	Trace	4
	6. 585	—	—	—	25	„	25
“ C & S,”	1. 5,250	—	—	—	15	Trace	15
	2. 4,500	—	—	—	10	4	14
	3. 23,600	—	—	—	10	Trace	10
	4. 22,000	—	—	—	8	„	8
	5. 31,000	—	—	—	4	3	7
	6. 10,550	+	+	+	17	2	19
“ S,”	1. 44,000	+	—	—	7	5	12
	2. 8,450	—	—	—	6	4	10
	3. 10,400	+	+	+	13	Trace	13
	4. 25,750	+	+	—	25	10	35
	5. 24,000	+	+	+	7	20	27
	6. 14,150	+	+	+	5	5	10

The allocation of marks was made in accordance with the suggestions of the Ministry of Agriculture and Fisheries.

Several improvements have been carried out at the various farms as a result of suggestions made by the Chief County Sanitary Officer.

The following reports were forwarded to the Society :—

“ T.”—The results of the examinations of the samples of milk from this farm were extremely good.

The bacterial counts per c.c. in all samples were above the standard required by the Ministry of Health for granting Licences for Certified Milk. In no case was bacillus coli discovered in either 1·0 c.c., 0·1 c.c., or 0·01 c.c.

The results of the tests for extraneous materials and keeping qualities were also good. The milk kept, on an average, for 3·5 days.

On the maximum of 800 marks the award in this case is 775·5.

"H."—The bacteriological examinations of the samples of milk from this farm show that an excellent standard of cleanliness has been attained.

The bacterial counts per c.c. in all samples reached the standard required by the Ministry of Health for granting Licences for Certified Milk. In no sample was bacillus coli discovered in either 1 c.c., 0.1 c.c., or 0.01 c.c.

The results of the tests for extraneous materials and keeping qualities were good. The maximum number of marks has been awarded for the absence of extraneous materials, and the milk kept, on an average, for 3.3 days.

On the maximum of 800 marks, the award in this case is 772.

"P."—The milk from this farm reached the bacteriological standard required for Certified Milk.

The tests for extraneous materials and keeping qualities were very good, the average time of keeping being 4.8 days.

The results indicate that a high standard of cleanliness is maintained.

On the maximum of 800 marks the award in this case is 767.

"H. & S." (1)—The examinations of the samples of milk from this farm showed that a high standard of cleanliness is maintained. Five of the six samples reached the standard required for Certified Milk.

In every case the bacterial counts per c.c. were below 500, and these competitors gained the maximum marks for this test.

The results of the tests for extraneous materials and keeping qualities were extremely good.

The maximum number of marks were awarded for the absence of extraneous materials, and the average time of keeping was 5.3 days.

On the maximum of 800 marks the award in this case is 760.5.

"H. & C."—These Competitors produced an excellent milk which in every sample reached the bacteriological standard required by the Ministry of Health for granting licences for Certified Milk.

In one sample only was bacillus coli present.

The results of the tests for extraneous materials and keeping qualities were good.

On the maximum of 800 marks the award in this case is 758.5.

"B."—All samples from this farm reached the standard for Certified Milk. In all cases the bacterial count per c.c. was below 1,000.

On the maximum of 800 marks the award in this case is 754.

"B. & F."—These competitors attained the standard required by the Ministry of Health for Certified Milk.

The results indicate that a good standard of cleanliness is maintained.

On the maximum of 800 marks the award in this case is 752.5.

"H. & S." (2)—All the samples from this farm reached the standard required for Certified Milk.

The maximum number of marks have been awarded for the absence of extraneous materials.

On the maximum of 800 marks the award in this case is 745.

"G."—This competitor reached the Ministry of Health standard for Certified Milk as regards 5 of the six samples taken.

The examinations for extraneous materials and keeping qualities were good.

The maximum number of marks have been awarded for the absence of extraneous materials.

On the maximum of 800 marks the award in this case is 728.5.

"C. I."—The samples from this farm reached the standard required by the Ministry of Health for Certified Milk, but were not so good as regards the bacterial counts and extraneous materials as those of previous competitors.

On the maximum of 800 marks the award in this case is 697.

"W."—This competitor produced a milk of "Grade A" standard.

The tests for extraneous materials and keeping qualities were fair.

On the maximum of 800 marks the award in this case is 696.5.

"D."—This competitor reached the standard required for "Grade A" Milk.

The tests for extraneous materials and keeping qualities were very good.

On the maximum of 800 marks the award in this case is 692.

"I."—This competitor reached a fairly good standard.

The results of the tests for extraneous materials and keeping qualities were fair.

On the maximum of 800 marks the award in this case is 644.5.

"C. & S."—This competitor reached the standard for "Grade A" Milk as regards five of the six samples obtained, but the bacterial counts were higher than is usual.

On the maximum of 800 marks the award in this case is 637.5.

"S."—The samples taken at this farm were below the standard to be expected in a Clean Milk Competition.

The results of all tests were unsatisfactory.

On the maximum of 800 marks the award in this case is 476.

THE MILK (SPECIAL DESIGNATIONS) ORDER, 1923.—Under this Order the County Council in 1927 issued 33 licences for the production and distribution of "Grade A" milk.

Before a licence is issued visits of inspection are made to the farm by one of the County Sanitary Officers. Some of the premises licensed needed little alteration structurally, whilst at others considerable improvements were effected. Two examples of the latter are given below :—

FARM A.

Shippon floor taken up and relaid with concrete ; proper channel formed and fall to new gullies fixed outside building.

Walls of shippon lined with cement to a height of 4' 6".

Five new hopper windows fixed in shippon, top portion of each made to open.

Wash hand basin fixed in cowshed, and walls and ceiling linewashed.

New brick dairy erected, concrete floor, with separate apartments for sterilising room and boiler house.

Upright boiler installed, 60 lbs. pressure, with bottle washing plant, steam steriliser, and milk cooler.

FARM B.

False ceiling removed from shippon and roof underboarded.

Interior walls of cowshed faced with concrete to a height of 4' 6" from floor.

Wash hand basin fixed in shippon with hot and cold water.

Yard paving repaired.

New brick dairy erected, with provision for sterilising room and boiler house. The dairy has been equipped with milk cooler, bottle washing tank and sprayer, also steam steriliser.

TABLE 15.—THE MILK (SPECIAL DESIGNATIONS) ORDER, 1923.

URBAN DISTRICTS.	Licences issued by Ministry of Health.	Licences issued by County Council.	Licences issued by Local Authorities.				
			No. of Dealers' Licences issued in respect of :—			No. of Licences issued in respect of "Pasteurised" Milk.	
			"Certified" Milk.	"Grade A (Tuberculin Tested)" Milk.	"Grade A" Milk.	Pasteurising Plants.	Retail Distributors.
Abram	1
Acerington (B)	4	...	2	...	...
Ashton-in-Makerfield	1	2
Aspull	2
Baeup (B)	1	...	...	...	...
Chorley (B)	1	1	1
Church	1	...	...
Clayton-le-Moors	1	...	...	1	...	2
Colne (B)...	1	...	2	...	...
Darwen (B)	2	...	1	...	...
Denton	1
Eccles (B)	2	...	...	...	2
Failsworth	1
Farnworth	1	...	2	...	...
Fleetwood	1	...	...	...	1
Formby	1	...	...	...	...
Great Crosby	1	1	...	...	...
Great Harwood	1	...	...	...	1	...	1
Haslingden (B)	1	...	1	...	...	...	...
Heysham	1	...	...
Heywood (B)	1	...	...
Hindley	19
Huyton-with-Roby	1	...	...	...	...	...	...
Ince-in-Makerfield	18

TABLE 15—continued.

URBAN DISTRICTS.	Licences issued by Ministry of Health.	Licences issued by County Council.	Licences issued by Local Authorities.				
			No. of Dealers' Licences issued in respect of:—			No. of Licences issued in respect of "Pasteurised Milk"	
			"Certified" Milk.	"Grade A (Tuberculin Tested)" Milk.	"Grade A" Milk.	Pasteurising Plants.	Retail Distributors.
Kirkham	3	...	...
Lancaster (B)	2	...	...	...	...
Longridge	1	...	...	1	...	...
Lytham Saint Anne's (B)	1	6	...	3	...	...
Middleton (B)	1	1	...	...	1
Morecambe (B)	3	1	...	...	...
Mossley (B)	1	...	...	...	...
Nelson (B)	1	...	2	...	...
Orrell	33	...	...	...	1
Poulton-le-Fylde	2	...	...	1	...	...
Rishton	1	...	1	...	2
Standish-with-Langtree	2
Stretford...	1	1	3	...	2
Swinton and Pendlebury	2	...	...	...	1
Thornton Cleveleys	1	...	...
Turton	1	...	...
Tyldesley-with-Shakerley	1	...	...
Ulverston	1	...	...	1	...	...
Urmston	1	...	...
Walton-le-Dale	1	1	...	3	...	...
Waterloo-with-Seaforth	5	...	...	...	...
Whitefield	1	...	...	...	...
Withnell... ..	1	...	...	...	...	...	...
Worsley	1	...	...	...	...
RURAL DISTRICTS.							
Barton-upon-Irwell	1	2	...	...
Blackburn	5	1	...	1	...	...
Chorley	3	...	...	1	...	...
Clitheroe	3	...	...	2	1	...
Fylde	7	...	...	3	...	...
Garstang	3	...	...	...	...	...
Preston	3	...	...	...	...	...
West Lancashire	2	...	...	2	...	...
Whiston	1	...	...	...	...	...	...
	5	33	75	5	46	3	60

The following statement summarizes the results of the examinations of milk samples taken by the County staff during the year from the farmers licensed in 1927 for the production of "Grade A" milk :—

Licence No.	*Cultivation. Bacteria growing on standard agar at 37° C. in 48 hours. per c.c.	*B. Coli. Present = + Absent = —			Dirt Estimation. parts per 100,000		
		1.0 c.c.	0.1 c.c.	0.01 c.c.	Cells and Cellular Products	Extran- eous Materials	Total Sediment
1.	780	—	—	—	8	2	10
2.	1,073	—	—	—	8	2	10
	2,950	—	—	—	22	Trace	22
3.	6,600	—	—	—	28	8	36
	40,500	—	—	—	8	6	14
4.	4,000	+	—	—	32	2	34
	12,500	+	—	—	6	6	12
5.	72,000	+	—	—	25	Trace	25
	32,000	+	+	+	8	4	12
	9,600	+	+	+	13	Trace	13
6.	2,050	—	—	—	22	Trace	22
	475	—	—	—	7	3	10
7.	1,433	+	—	—	26	4	30
	520	—	—	—	15	3	18
	690	—	—	—	6	4	10
8.	1,080	—	—	—	13	3	16
	1,093	+	—	—	23	3	26
	180	—	—	—	2	Trace	2
9.	86,000	+	—	—	Not	Donc	—
	290	—	—	—	4	Trace	4
10.	320	—	—	—	45	Trace	45
	245	—	—	—	5	1	6
11.	9,000	—	—	—	41	Trace	41
	2,315	—	—	—	17	Trace	17
12.	1,213	+	—	—	40	Trace	40
	550	—	—	—	4	3	7
	460	—	—	—	4	2	6
	1,887	—	—	—	6	6	12
13.	910	—	—	—	10	Trace	10
14.	1,203	—	—	—	10	Trace	10
	150	—	—	—	2	Trace	2
15.	390	—	—	—	9	4	13
	916	+	—	—	Not	Donc	—
	60,500	+	+	+	9	10	19
16.	1,700	+	+	—	20	Trace	20
	860	+	+	+	22	Trace	22
17.	1,080	—	—	—	28	Trace	28
18.	1,573	—	—	—	22	4	26
	2,900	—	—	—	19	Trace	19
	140	—	—	—	12	3	15
	2,550	—	—	—	8	6	14
19.	410	—	—	—	6	Trace	6
	3,200	—	—	—	6	Trace	6

*Standard :—Not more than 200,000 bacteria per c.c. and no B. Coli in 0.01 of a c.c.

“Grade A” Milk—*continued.*

Licence No.	*Cultivation. Bacteria growing on standard agar at 37° C. in 48 hours. per c.c.	*B. Coli. Present = + Absent = —			Dirt Estimation. parts per 100,000.		
		1·0 c.c.	0·1 c.c.	0·01 c.c.	Cells and Cellular Products.	Extran- eous Materials	Total Sediment.
20.	960	+	—	—	19	Trace	19
	550	—	—	—	8	Trace	8
21.	210	—	—	—	30	Trace	30
	3,950	+	+	+	8	4	12
22.	3,650	—	—	—	40	4	44
	870	—	—	—	15	Trace	15
23.	14,200	+	+	—	75	Trace	75
	3,050	+	+	—	12	5	17
24.	505	—	—	—	23	2	25
	785	—	—	—	20	Trace	20
25.	580	—	—	—	45	Trace	45
26.	450	—	—	—	8	Trace	8
	960	+	—	—	89	Trace	89
	210	+	+	—	6	2	8
27.	1,230	+	+	—	14	Trace	14
	700	+	—	—	10	Trace	10
28.	190	—	—	—	36	Trace	36
	105,667	+	+	+	11	1	12
	1,833	—	—	—	3	3	6
	5,950	—	—	—	6	Trace	6
29.	650	—	—	—	2	2	4
30.	440	+	+	—	8	Trace	8
31.	2,200	—	—	—	62	Trace	62
32.	11,350	+	+	—	Trace	9	9
33.	350	—	—	—	30	Trace	30

*Standard :—Not more than 200,000 bacteria per c.c. and no B.Coli in 0·01 of a c.c.

Inspection of Meat and Other Food.—Each district report contains a reference to the action taken with regard to meat and other food, including inspection of slaughterhouses, meat shops, stalls and vehicles, and places where food is prepared.

Legal action was found necessary in the following areas :—

Royton.—Having carcase on unlicensed premises. Fined £110.

Swinton and Pendlebury.—Exposing tuberculous meat on a stall in a public market. One fined £5 and £3 3s. 0d. costs, and one fined £15 and £2 2s. 0d. costs.

Worsley.—Exposing meat uncovered on a stall in a public market. Fined £6 6s. 0d. and £2 2s. 0d. costs.

UN SOUND FOOD.—The following shows approximately the amount of unsound or diseased food condemned and destroyed by the local health officers during the year 1927 :—

On account of Tuberculosis.—116 carcasses or parts of carcasses. Tuberculous meat (in addition to above), 82,960 lbs. and 2,415 lbs. of offal.

For other reasons.—592 carcasses of cows, sheep and pigs, 76,059 lbs. meat (not classified), 1,555 lbs. mutton, 773 lbs. pork and bacon, 973 lbs. liver and the livers of 87 beasts and 70 sheep, 170 lbs. offal, 130 lbs. internal organs, 391 lbs. and 7 boxes fish, 24 quarts mussels, 261 rabbits, 2,420 lbs. onions, 1 box peas, 220 lbs. and 7 baskets fruit, 89 tins milk, 9½ gross chocolate sticks, 4½ doz. farm eggs, and 5,602 lbs. miscellaneous foods.

SLAUGHTERHOUSES.—PUBLIC ABATTOIRS.—Slaughterhouses in the County area number 745—registered, 320 ; licensed, 425.

A prosecution took place at Eccles (B) for slaughtering on unregistered premises—fined £5 and at Oswaldtwistle for failing to give notice of slaughter of a beast—to pay costs.

Public abattoirs have been provided at Accrington (B), Chorley (B), Clitheroe (B), Colne (B), Darwen (B), Fleetwood, Great Harwood, Lancaster (B), Lytham Saint Anne's (B), Newton-in-Makerfield and Oswaldtwistle. The Medical Officers of Health of the following districts recommend the provision of a public abattoir: Haslingden (B), Hindley, Horwich, Littleborough and Withnell.

THE PUBLIC HEALTH (PRESERVATIVES IN FOOD) ORDERS, &c.—These Regulations, based mainly on the findings of the Departmental Committee on Food Preservatives, came into operation as regards most articles of food on the 1st January, 1927. The operation of certain clauses was postponed until January and July, 1928.

A series of Regulations and Circulars were issued in, or became operative during 1927, in regard to food, viz.:—Circulars 779 (April, 1927), and 831 (November, 1927), on the Public Health (Imported Food) Regulations, 1925 ; Circulars 782 (April, 1927), and 806 (June, 1927), on Preservatives in Food ; The Public Health (Preservatives, &c., in Food) Amendment Regulations, 1927 ; The Public Health (Condensed Milk) Amendment Regulations, 1927, and The Public Health (Dried Milk) Amendment Regulations, 1927, with Circular 827 (November, 1927) referring to both these amending regulations.

SALE OF FOOD ORDER.—During the year under report the County Council instituted legal proceedings under this Order at Farnworth, for exposing for sale a quantity of foreign eggs marked "fresh and good"—fined 40s. ; and at Rawtenstall (B), for exposing for sale from a stall in a public market a quantity of foreign meat without being labelled "imported"—salesman fined £1 and proprietor, for aiding and abetting, £5.

Food Poisoning.—Four cases of food poisoning, supposed to be due to the consumption of sausage, were reported from Ashton-under-Lyne (B) in November. No portion of the suspected food was available for examination.

Bakehouses.—From the local returns there are 2,425 bakehouses in the County area.

Sale of Food and Drugs Acts, 1875-1907, &c.—The following paragraphs and tables are extracted from the annual report for the year 1927 of the County Analyst, Mr. G. D. Elsdon, B.Sc., F.I.C.

During the year 1927 a total of 4,542 samples have been submitted for examination and report. Of this number 4,396 were submitted either under or in connection with the Sale of Food and Drugs Acts, whilst 146 were submitted for other purposes, full details of which are given in the body of the Report.

The number of samples submitted directly under the Food and Drugs Acts was 4,341, and of these, 99, or 2·3 per cent. were returned as adulterated.

The number of samples has been made up in the following way :—

Sale of Food and Drugs Acts	...	...	4,341
"Appeal to Cow" Samples	...	...	55
Fertilisers and Feeding Stuffs Act	...	...	7
Drinking Waters	...	...	48
River Waters and Effluents	...	...	29
Coroners	...	...	5
Criminal	...	...	11
Poisons and Pharmacy Acts	...	...	2
Miscellaneous	...	...	44
			<hr/>
			4,542
			<hr/>

SAMPLES TAKEN UNDER THE SALE OF FOOD AND DRUGS ACTS.—The total number of Foods and Drugs examined during the year was 4,341. The following table gives complete details concerning the various articles examined :—

Samples.	Number examined.			Number adulterated.			Percentage of Adulteration.
	Formal.	Informal.	Total.	Formal.	Informal.	Total.	
Milk	2389	23	2412	52	...	52	2·2
Skimmed Milk	1	...	1	...	...	...	...
Condensed Milk ... ..	...	31	31	...	...	...	...
Cream	1	12	13	1	...	1	7·7
Butter	3	151	154	...	...	...	...
Cheese ... ..	...	77	77	...	...	...	...
Cream Cheese	1	1	2	1	1	2	100·0
Lemon Cheese ... ..	...	7	7	...	...	...	...
Margarine	2	107	109	...	...	...	...
Lard	1	134	135	...	...	...	...
Dripping	1	1	1	...	...	...	...
Suet ... ..	...	2	2	...	...	...	...
Sugar ... ..	...	31	31	...	...	...	...
Sweets	7	69	76	5	7	12	15·8
Syrup ... ..	...	3	3	...	...	...	...
Treacle ... ..	...	1	1	...	...	...	...
Honey ... ..	...	3	3	...	...	...	...
Jam	2	39	41	1	1	2	4·9
Marmalade ... ..	...	3	3	...	...	...	...
Jelly ... ..	...	13	13	...	...	...	...
Apples	6	...	6	...	...	...	...
Sponge Cakes ... ..	...	1	1	...	...	...	...
Ground Almonds ... ..	...	14	14	...	...	...	...
Coconut ... ..	...	4	4	...	...	...	...
Tea ... ..	...	71	71	...	...	...	...
Coffee	1	153	154	...	...	...	...
Coffee and Chicory ... ..	...	1	1	...	...	...	...
Cocoa ... ..	...	27	27	...	...	...	...
Baking Powder ... ..	...	69	69	...	...	...	...
Blane Mange Powder ... ..	...	5	5	...	...	...	...
Custard Powder ... ..	...	15	15	...	...	...	...
Egg Powder ... ..	...	9	9	...	...	...	...
Dried Eggs ... ..	...	3	3	...	2	2	66·6
Jelly Cream ... ..	...	1	1	...	1	1	100·0
Milk Pudding ... ..	...	1	1	...	1	1	100·0
Rice ... ..	...	30	30	...	...	...	...
Ground Rice ... ..	...	37	37	...	...	...	...
Sago ... ..	...	14	14	...	...	...	...
Tapioca ... ..	...	28	28	...	...	...	...
Barley ... ..	...	16	16	...	...	...	...
Cornflour ... ..	...	18	18	...	...	...	...
Arrowroot ... ..	...	48	48	...	1	1	2·1
Oatmeal ... ..	...	17	17	...	...	...	...
Flour ... ..	...	9	9	...	...	...	...
Self-raising Flour ... ..	...	11	11	...	...	...	...
Cake Flour ... ..	...	1	1	...	...	...	...
Bi-carbonate of Soda ... ..	...	32	32	...	...	...	...
Cream of Tartar	1	41	42	...	1	1	2·4
Tartarie Acid ... ..	...	11	11	...	...	...	...
Yeast ... ..	...	6	6	...	...	...	...
Soup ... ..	...	1	1	...	...	...	...
Mincedmeat ... ..	...	2	2	...	...	...	...
Meat Paste ... ..	...	19	19	...	...	...	...
Sausages	8	52	60	4	8	12	20·0
Brawn ... ..	...	9	9	...	1	1	11·1
Saveloys	1	...	1	...	...	...	...
Black Puddings ... ..	...	2	2	...	...	...	...
Polony ... ..	...	1	1	...	...	...	...
Fish Paste	1	20	21	...	5	5	2·4
Canned Fruit and Fish ... ..	...	28	28	...	...	...	...
Whisky ... ..	...	6	6	...	...	...	...
Rum ... ..	...	3	3	...	...	...	...
Gin ... ..	...	4	4	...	...	...	...
Rum and Coffee	1	...	1	1	...	...	100·0
Lemonade Powder ... ..	...	3	3	...	1	1	33·3

Samples.	Number examined.			Number adulterated.			Percentage of Adulteration.
	Formal.	Informal.	Total.	Formal	Informal.	Total.	
Essence of Lemon	1	1	...	...	...	...
Pepper	1	120	121	...	...	...	...
Ginger	1	83	84	...	...	...	...
Mixed Spice	1	13	14	1	1	2	14·3
Cinnamon	6	6	...	...	...	...
Caraway Seeds	2	2	...	...	...	...
Mustard	18	18	...	...	...	...
Sauce	4	4	...	...	...	...
Gravy Browning	10	10	...	...	...	...
Vinegar	5	5	...	...	...	...
Pickles	7	7	...	...	...	...
Olive Oil	6	6	...	...	...	...
Cream Trifle	1	1	...	...	...	...
Almond Oil	8	8	...	...	...	...
Ammoniated Tincture of Quinine	7	7	...	...	...	...
Borax	6	6	...	1	1	16·6
Boric Acid	2	2	...	...	...	...
Castor Oil	6	6	...	...	...	...
Cod Liver Oil	5	5	...	...	...	...
Cod Liver Oil and Malt...	1	1	...	...	...	...
Effervescent Salts	3	3	...	...	...	...
Epsom Salts	20	20	...	...	...	...
Glauber Salts	3	3	...	...	...	...
Glycerin	9	9	...	...	...	...
Gregory Powder	5	5	...	...	...	...
Headache Powder	1	1	...	...	...	...
Liquorice Powder	2	2	...	...	...	...
Magnesia	5	5	...	1	1	20·0
Seidlitz Powder	1	1	...	...	...	...
Vaseline	1	1	...	...	...	...
	2429	1912	4341	66	33	99	2·3

Of these 4,341 samples, 99 or 2·3 per cent. were returned as adulterated.

The usual figure for adulteration for the whole of England and Wales is about 6·0 per cent., that for 1926, the last year for which figures are available being 5·8 per cent.

MILK.—Two thousand four hundred and twelve samples of milk have been examined during the year, of which 52, or 2·2 per cent. have been returned as adulterated. This figure is very much less than that for the whole of England and Wales, which was 7·4 per cent. in 1926.

The amount of milk adulteration and of adulteration in general was particularly low in the third and last quarters of 1927, and, further, the majority of those samples that were adulterated were received during the last few weeks in the last quarter.

The average composition of the whole of the milks examined, including “Appeal to cow” samples, is given in the following table, from which it will be seen that the average fat content is 3·76 per cent., whilst that for solids-not-fat is 8·94. These figures are somewhat higher than those for 1926, which were 3·66 and 8·92 respectively. This is probably brought about by the smaller percentage of adulteration found during the year, since all adulterated samples are included in the averages, so that the fewer that are adulterated the higher will be the figure. The figures are further reduced by the fact that not infrequently several samples are taken from one vendor whose milk is of suspiciously low quality. For these reasons, the final averages are not a true indication of the whole of the milk produced in the areas from which the supplies of the County are drawn. Actually, the milk is of appreciably better quality.

AVERAGE COMPOSITION OF MILKS, 1927.

Month.		Number of Samples.	Total Solids per cent.	Fat per cent.	Solids-not-fat per cent.
January	...	97	12·62	3·65	8·97
February	...	146			
March	...	232			
April	...	200	12·60	3·64	8·96
May	...	279			
June	...	185			
July	...	145	12·67	3·77	8·90
August	...	195			
September	...	133			
October	...	355	12·84	3·92	8·92
November	...	296			
December	...	204			
		2467*	12·70	3·76	8·94

* Includes "Appeal-to-cow" samples.

For comparative purposes the corresponding annual figures are given for the past twelve years.

AVERAGE COMPOSITION OF MILKS, 1916-1927.

Year.		Number of Samples.	Total Solids per cent.	Fat per cent.	Solids-not-fat per cent.
1916	...	2767	12·54	3·66	8·88
1917	...	2869	12·52	3·71	8·81
1918	...	3396	12·51	3·67	8·84
1919	...	2993	12·56	3·65	8·91
1920	...	2889	12·64	3·68	8·96
1921	...	2451	12·59	3·65	8·94
1922	...	2774	12·72	3·69	9·03
1923	...	3011	12·71	3·68	9·03
1924	...	3142	12·70	3·71	8·99
1925	...	2958	12·54	3·62	8·92
1926	...	2795	12·58	3·66	8·92
1927	...	2467	12·70	3·76	8·94
		34512	12·60	3·67	8·93

It will be observed that the variations both in fat and solids-not-fat are quite small, and that there has been no appreciable change in the quality during this time. The fact that the final average for the whole period has been obtained from an examination of over 34,000 milks is a fairly complete, if not a complete, answer to those who allege that it is quite common for herds to produce milk of such low quality that it is actually considerably lower than that suggested by the limits of 3·0 for fat and 8·5 for solids-not-fat contained in the Sale of Milk Regulations, 1901.

Whilst some apologists are prepared to admit that the average quality of the milk produced by a mixed herd is usually very considerably above the limits fixed by the Sale of Milk Regulations, they contend that the fat very frequently falls below 3·0 per cent. during the months of April, May and June, after the cows are put out to grass. In order to discover what grounds there are

for such a contention, the averages for each month of the year have been considered, and in the table below the whole of the samples purchased in the County of Lancaster during the past 15 years have been arranged according to the month in which they were purchased :—

AVERAGE COMPOSITION OF MILKS FOR EACH MONTH, 1913–1927.

Month.	Number of Samples.	Total Solids per cent.	Fat per cent.	Solids-not-fat per cent.
January ...	3063	12.53	3.62	8.91
February ...	3653	12.49	3.60	8.89
March ...	3918	12.49	3.60	8.89
April ...	3262	12.51	3.63	8.88
May ...	3720	12.50	3.57	8.93
June ...	3759	12.48	3.54	8.94
July ...	3347	12.41	3.57	8.84
August ...	2106	12.51	3.64	8.87
September ...	3677	12.69	3.75	8.94
October...	4085	12.80	3.85	8.95
November ...	4104	12.76	3.82	8.94
December ...	3838	12.64	3.72	8.92
	42532	12.58	3.67	8.91

It is at once apparent from an examination of these figures that, although the fat does fall slightly during the spring of the year, there are no grounds for the belief that the limit of 3.0 per cent. for fat is very much more stringent in May and June than it is in other months of the year. The difference between the highest and lowest average, however, is such that if and when a standard is fixed for the fat in milk, it might be advisable to make this seasonal. The lowest standard fixed should, however, be considerably over the present limit of 3.0 per cent.

ADULTERATION OF MILK.—As previously stated, 52 samples of milk have been returned as adulterated during the year, which is equivalent to 2.2 per cent. of the number of samples examined. A list of these samples, together with the action taken in regard to each one, is given in the following table :—

Number of Sample.	Nature of Adulteration.	Action taken.	Result of Prosecution.	Remarks.	
598 Bn.D. ...	Deficient 5½% Solids-not-fat...	Prosecution ...	Dismissed ...	Further sample from same vendor genuine	
319 P.D. ...	Deficient 10% Fat ...	Caution ...			
160 Irlam U.D.C.	Deficient 8% Solids-not-fat ...	Prosecution ...	Fined £1 and £6 18s. 6d. costs.		
8 Middleton Borough	Artificially coloured ...	Caution ...			
759 R.D. ...	Deficient 15% Solids-not-fat...	Prosecution ...	Fined £5 and £5 3s. 2d. costs		
322 N.L.D. ...	Deficient 10% Fat ...	Further samples advised			
779 R.D. ...	Deficient 6% Fat and 4½% Solids-not-fat	Prosecution ...	Dismissed on warranty		
784 R.D. ...	Deficient 53% Fat ...	Do. ...	Fined £2 and £4 7s. costs		
788 R.D. ...	Deficient 4½% Solids-not-fat...	None ...			
789 R.D. ...	Deficient 10% Fat ...	Do.			
381 Lytham St. Anne's Boro.	Deficient 13% Fat ...	Do.			
334 P.D. ...	Deficient 33% Fat ...	Prosecution ...	Dismissed		
337 P.D. ...	Deficient 4½% Solids-not-fat...	Caution ...	...	
812 R.D. ...	Deficient 20% Fat	Prosecution	Fined £5 and £6 2s. 10d. costs		{ "Appeal-to-cow" samples deficient
813 R.D. ...	Deficient 33% Fat				
282 C.D. ...	Deficient 13% Fat	Caution ...	...	
283 C.D. ...	Deficient 10% Fat				

Number of Sample.	Nature of Adulteration.			Action taken.		Result of Prosecution.		Remarks.
791 L.D. ...	Deficient 10% Fat	...	...	Caution	...	...	...	"Appeal-to-cow" sample had same total solids though higher in fat
506 Wgn.D. ...	Deficient 6% Fat	...	...	Further sample taken		...		Further sample genuine
511 Wgn.D. ...	Deficient 10% Fat	...	...	Caution	...	...		"Appeal-to-cow" sample deficient
539 Wgn.D. ...	Deficient 6% Fat	...	...	Further sample taken		...		Further sample genuine
581 Wgn.D. ...	Deficient 13% Fat	...	...	Caution	...			
805 S.D. ...	Deficient 13% Fat	...	...	Prosecution	...	Dismissed		
806 S.D. ...	Deficient 5½% Solids-not-fat...			Do. ...	...	Do. ...		
814 S.D. ...	Deficient 20% Fat	...	...	Do. ...	...	Fined £10 and £4 5s. 5d. costs		
373 P.D. ...	Deficient 33% Fat	...	...	Do. ...	...	Ordered to pay £2 7s. 3d. costs		
361 N.L.D. ...	Deficient 13% Fat	...	...	Caution	...			
831 S.D. ...	Deficient 13% Fat	...	...	None ...	...	...		Supplied by vendor of 844 and 845
589 Wgn.D. ...	Deficient 13% Fat	...	...	Caution	...			
844 S.D. ...	Deficient 13% Fat			Prosecution	{	Ordered to pay £7 15s. 6d. costs		
845 S.D. ...	Deficient 10 % Fat	...						
636 Wgn.D. ...	Deficient 8% Fat	...	...	Caution				
35 Chorley Borough	Deficient 10% Fat	...	...	Do.				
1092 H.B.D. ...	Deficient 13% Fat	...	...	Do.				
1093 H.B.D. ...	Deficient 6½% Fat	...	...	Do.				
434 Lytham St. Anne's Boro.	Deficient 13% Fat	...	...	Do.				
551 Westhoughton U.D.C.	Deficient 8% Solids-not-fat	...		Do.				
553 Westhoughton U.D.C.	Deficient 3% Solids-not-fat	...		Do.				
944 R.D. ...	Deficient 10% Fat	...	...	Further samples advised		...		Further samples genuine
442 Lytham St. Anne's Boro.	Deficient 13% Solids-not-fat...			Prosecution	...	Dismissed	...	Defective summons
871 L.D. ...	Deficient 4% Solids-not-fat	...		Do.	{	Fined £2 and £4 6s. 2d. costs		
872 L.D. ...	Deficient 11½% Solids-not-fat							
760 O.D. ...	Deficient 5½% Solids-not-fat...			Do.	{	Ordered to pay £7 0s. 5d. costs		
761 O.D. ...	Deficient 5½% Solids-not-fat...							
1096 G.D. ...	Deficient 31% Solids-not-fat...			Do.	...	Fined £2 and £4 9s. 6d. costs		
417 P.D. ...	Deficient 11½% Solids-not-fat			None ...	...	...		Supplied by vendor of 427 and 428
427 P.D. ...	Deficient 8% Solids-not-fat	...		Prosecution	{	Ordered to pay £4 13s. 3d. costs		
428 P.D. ...	Deficient 14% Solids-not-fat...							
731 Ws.D. ...	Deficient 5½% Solids-not-fat...			Caution	...			
1329 M.D. ...	Deficient 10% Fat	...	...	None ...	...	...		"Appeal to cow" sample low
922 S.D. ...	Deficient 13% Fat	...	...	Do. ...	...	...		Do.
977 By D. ...	Deficient 10% Fat	...	...	Further sample advised				

DIRT IN MILK.—In the Annual Report for 1926 a method (due to my predecessor, Mr. W. Collingwood Williams) was described for the determination of dirt in milk, and a table was given showing the amount found for the years 1917–1922. This table has now been compiled in another form, which is given below :—

Parts per 100,000	Number of Samples.								Total No. of Samples.	Per- centage of Total. Samples.
	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.		
Less than 0·1	2457	3006	2560	2581	2216	2475	2568	2758	20,621	86·9
0·1–0·9	87	124	206	181	144	235	307	323	1,607	6·8
1·0–1·9	104	67	64	45	53	42	55	46	476	2·0
2·0–2·9	78	52	55	42	27	22	49	27	352	1·4
3·0–3·9	51	40	45	35	15	14	20	13	233	1·0
4·0–4·9	37	25	27	20	17	12	12	9	159	0·66
5·0–5·9	35	21	15	13	3	6	12	10	115	0·50
6·0–6·9	23	2	18	2	3	3	3	2	56	0·24
7·0–7·9	13	5	13	7	3	1	2	1	45	0·20
8·0–8·9	7	6	1	4	2	1	...	1	22	0·10
9·0–9·9	7	3	...	2	...	...	...	...	12	0·04
10·0–10·9	2	1	4	1	...	2	1	...	11	0·04
11·0–11·9	3	2	3	2	...	...	...	...	10	0·04
12·0–12·9	...	1	...	1	1	...	...	...	3	0·01
13·0–13·9	1	2	1	...	...	...	...	...	4	0·02
14·0–14·9	1	1	...	...	...	...	...	...	2	0·008
15·0–15·9	3	1	1	...	...	...	...	...	5	0·02
16·0–16·9	...	...	1	...	...	...	...	...	1	0·003
17·0–17·9	1	1	...	...	...	...	...	...	2	0·008
18·0–18·9	...	...	...	1	...	...	...	...	1	0·003
19·0–19·9	...	...	...	...	...	...	...	...	0	0·0
20·0–20·9	...	...	...	...	...	1	1	...	2	0·008
	2910	3360	3014	2937	2484	2814	3030	3190	23,739	100·000

From this table it will be seen that 93·7 per cent. of the samples examined contained less than one part of moist dirt per 100,000. At first sight these figures would suggest that a standard of 1 part per 100,000 for moist sediment in milk is a reasonable one, but it must be remembered that no information is available as to the number of cases in which sieves were used before the samples on which the above table is based were handed over to the sampling officers. In the Report for 1926, the writer gave it as his considered opinion that the use of sieves was unsatisfactory, as it often tended to give an entirely fictitious appearance of cleanliness to the milk as sold. From this it follows that, whilst a milk showing much obvious sediment is very undesirable, an apparently clean milk may still be seriously contaminated by material, the insoluble part of which has been removed since the contamination took place. The only way to ensure uncontaminated milk is to encourage by every means clean methods of milking and distribution, or, in other words, to develop what has been called the “Hygienic Conscience.”

It follows, therefore, that such figures neither prove the general cleanliness of the samples supplied, nor give much assistance in deciding what should be accepted as a reasonable standard for the permissible amount of sediment in milk. There is, however, not much doubt but that by using “clean milking” methods and without the use of any kind of strainer, it is possible to produce milk from which visible sediment is practically absent.

ARTICLES OF FOOD OTHER THAN MILK.—One thousand nine hundred and twenty-nine samples of food other than milk have been examined. Of these, 47, or 2·4 per cent. have been found to be adulterated. A table containing particulars in regard to these samples is given below :—

No. of Sample.	Description.	Formal or Informal.	Nature of Adulteration.	Action taken.	Remarks.
974 R.D. ...	Cream ...	Formal ...	Deficient 10% Total-milk-solids	Further sample advised	
1016 M.D. ...	Cream Cheese ...	Informal	Genuine Whole-milk-Cheese ...	Formal sample purchased	See No. 1189
1189 M.D. ...	Do. ...	Formal ...	Do. do. ...	Label altered ...	Same vendor as No. 1016
724 Km D.	Sweets ...	Informal	Contained—950 parts per million of sulphur dioxide	Formal sample purchased	See No. 745
745 Km. D.	Do. ...	Formal ...	Do. 800 do. ...	Prosecution ...	Ordered to pay £4 costs
949 M.D. ...	Do. ...	Informal	Do. 316 do. ...	None	
973 M.D. ...	Do. ...	Do. ...	Do. 600 do. ...	Do.	
1014 M.D. ...	Do. ...	Formal ...	Do. 450 do. ...	Prosecution ...	Dismissed on warranty
1022 M.D. ...	Do. ...	Informal	Do. 450 do. ...	Formal sample purchased	Formal sample genuine
1117 M.D. ...	Do. ...	Do. ...	Do. 310 do. ...	Do.	See No. 1166
1118 M.D. ...	Do. ...	Do. ...	Do. 320 do. ...	Do. ...	See No. 1167
1121 M.D. ...	Do. ...	Do. ...	Do. 310 do. ...	Do. ...	See No. 1165
1165 M.D. ...	Do. ...	Formal ...	Do. 300 do. ...	Caution ...	Same vendor as No. 1121
1166 M.D. ...	Do. ...	Do. ...	Do. 350 do. ...	Do. ...	Do. 1117
1167 M.D. ...	Do. ...	Do. ...	Do. 300 do. ...	Do. ...	Do. 1118
626 Ws.D. ...	Stoneless Plum Jam	Informal	Contained 5% Apple Pulp	Formal sample purchased	See No. 640
640 Ws.D. ...	Do. ...	Formal ...	Contained 10% Apple Jam ...	Prosecution ...	Fined £5 and £4 7s. 7d. costs
912 M.D. ...	Dried Eggs ...	Informal	Contained spores and mites in large quantities and quite unfit for human food	Seized and destroyed under Public Health Act	
1317 M.D. ...	Do. ...	Do. ...	Do. do. ...	Do.	
1223 M.D. ...	Jelly Cream ...	Do. ...	Composed of Gelatine, sugar and flavouring ...	None	
1304 M.D. ...	Milk Pudding ...	Do. ...	Consisted of starch only ...	Description altered	
1096 A.D. ...	Arrowroot... ...	Do. ...	Contained 25% of sweet potato starch ...	Formal sample could not be obtained	
476 Wgn.D.	Cream of Tartar ...	Do. ...	Contained 40 parts of lead per million ...	Formal sample purchased ...	Formal sample genuine
613 Wgn.D.	Lemonade Powder	Do. ...	Consisted of a mixture of cane sugar and tartaric acid, flavoured with oil of lemon	None	
796 M.D. ...	Sausages ...	Do. ...	Contained 18 grains per lb. of boric acid	Formal sample purchased	See No. 833
833 M.D. ...	Do. ...	Do. ...	Do. 18 do. ...	Prosecution ...	Fined £2 2s. 0d. and £2 15s. 3d. costs
937 M.D. ...	Do. ...	Do. ...	Do. 14 do. ...	Formal sample purchased	See No. 962
962 M.D. ...	Do. ...	Do. ...	Do. 3½ do. ...	Caution ...	Same vendor as No. 937

No. of Sample.	Description.	Formal or Informal.	Nature of Adulteration.	Action taken.	Remarks.
1023 M.D. ...	Sausages ...	Informal	Contained 140 parts per million of sulphur dioxide	Formal sample purchased	See No. 1141
1072 M.D. ...	Do. ...	Do. ...	Do. 160 do. ...	Do. ...	Do. 1140
1097 M.D. ...	Do. ...	Do. ...	Do. 480 do. ...	Do. ...	Do. 1142
1123 M.D. ...	Do. ...	Do. ...	Do. 430 do. ...	Do. ...	Do. 1139
1139 M.D. ...	Do. ...	Formal ...	Do. 290 do. ...	Prosecution ...	Fined £1 and £3 11s. 2d. costs
1140 M.D. ...	Do. ...	Do. ...	Do. 150 do. ...	Do. ...	Dismissed
1141 M.D. ...	Do. ...	Do. ...	Do. 120 do. ...	Do. ...	Fined £1 and £3 10s. 5d. costs
1142 M.D. ...	Do. ...	Do. ...	Do. 240 do. ...	Do. ...	Fined £1 and £3 12s. 2d. costs
970 M.D. ...	Brawn ...	Informal	Contained 3½ grains per lb. boric acid	Caution	
793 S.D. ...	Crab Paste ...	Do. ...	Consisted largely of salmon paste stiffened with starch	None	
695 O.D. ...	Lobster Paste ...	Do. ...	Do. do. ...	Do.	
794 S.D. ...	Do. ...	Do. ...	Do. do. ...	Do.	
606 Wgn.D.	Do. ...	Do. ...	Contained 3 grains per lb. boric acid	Do.	
717 S.L.D. ...	Do. ...	Do. ...	Contained not more than 20 per cent. of lobster paste	Do.	
893 L.D. ...	Ground Spice ...	Do. ...	Contained 5% extraneous mineral matter	Formal sample purchased	See No. 931
931 L.D. ...	Do. ...	Formal ...	Contained 6% of extraneous mineral matter, consisting largely of sand	Caution ...	Withdrawn from sale
770 M.D. ...	Rum and Coffee ...	Do. ...	Contained only 2·3% rum and 30% coffee extract	None	
832 R.D. ...	Borax ...	Informal	Contained 20 parts arsenic per million	Do.	
536 Wgn. D.	Magnesia ...	Do. ...	Lost 39% on ignition instead of the 1% allowed by the B.P.	Do.	

REPORT ON SAMPLES RECEIVED UNDER THE MILK AND CREAM REGULATIONS,
1912 AND 1917.

1.—Milk and Cream not sold as Preserved Cream—

	No. of Samples examined for the presence of a preservative.	No. in which preservative was reported to be present.
Milk ...	2412	None
Cream ...	10	None

2.—Cream sold as “Preserved Cream”—

(a) (i.) Correct statements made	...	...	...	...	3
(ii.) Statements incorrect	...	...	...	...	0

—

3

==

(iii). Percentage of preservative found in each sample—0·40 per cent., 0·37 per cent., 0·37 per cent.

(b) Determinations made of milk-fat in cream sold as “Preserved Cream”—

(i.) Above 35 per cent.	...	...	...	...	3
(ii.) Below 35 per cent.	...	...	...	...	0

—

3

==

(c) Instances where (apart from analysis) the requirements as to labelling or declaration of Preserved Cream in Article V (2) of the Regulations have not been observed ... None.

(d) Particulars of each case in which the regulations have not been complied with ... None.

WATER ANALYSES.—Forty-eight samples of water have been analysed during the year to ascertain their fitness for drinking and domestic use, with the results set out below :—

Source.	Fit.	Unsafe or Doubtful.	Unfit.	Total.
Shallow Wells	7	8	13	28
Deep Wells... ..	2	...	...	2
Springs	4	...	...	4
Upland Surface	2	...	...	2
Pit Shaft	1	...	...	1
Public Supplies	11	...	...	11
Totals	27	8	13	48

Samples of water were received from the following districts :—

Boroughs.—Chorley, Darwen, Haslingden, Leigh and Widnes.

Urban Districts.—Ashton-in-Makerfield, Carnforth, Horwich, Lathom and Burscough, Newton-in-Makerfield, and Walton-le-Dale.

Rural Districts.—Fylde, Lancaster, Lunesdale and Warrington.

Samples were also received from the County Medical Officer of Health and the County Architect.

TABLE 16. SAMPLES ANALYSED IN THE ADMINISTRATIVE COUNTY UNDER THE SALE OF FOOD AND DRUGS ACTS DURING THE YEAR 1927.

POLICE DIVISION.	MILK.		OTHER ARTICLES OF FOOD.		DRUGS.		TOTAL.		Percentage of Adulteration.
	Samples.	Adulterated.	Samples.	Adulterated.	Samples.	Adulterated.	Samples.	Adulterated.	
Lonsdale North	51	2	72	0	1	0	124	2	1.6
Lonsdale South	34	0	78	1	0	0	112	1	0.9
Garstang	40	1	46	0	1	0	87	1	1.1
Kirkham	59	0	129	2	4	0	192	2	1.0
Blackburn Lower	91	0	56	0	0	0	147	0	0.0
Blackburn Higher	140	2	134	0	5	0	279	2	0.7
Church	66	2	83	0	0	0	149	2	1.4
Rossendale	87	0	35	0	0	0	122	0	0.0
Leyland	115	3	105	2	9	0	229	5	2.2
Bolton	134	1	80	0	16	0	230	1	0.4
Bury	76	1	77	0	14	0	167	1	0.6
Rochdale	231	8	67	1	2	1	300	10	3.3
Ashton-under-Lyne	96	0	82	1	2	0	180	1	0.6
Manchester	284	1	284	30	18	0	586	31	5.3
Seaforth	99	7	95	2	0	0	194	9	4.6
Ormskirk	100	2	16	1	0	0	116	3	2.6
Preseot	77	7	32	0	0	0	109	7	6.4
Widnes	66	1	64	2	0	0	130	3	2.4
Warrington	135	0	111	0	0	0	246	0	0.0
Wigan	179	6	156	3	13	1	348	10	2.9
County Police	2160	44	1802	45	85	2	4047	91	2.2
*Local Authorities	250	8	42	0	0	0	292	8	2.7
Private Purchasers	2	0	0	0	0	0	2	0	0.0
Totals	2412	52	†1844	45	85	2	4341	99	2.3
Percentage of Adulterated Samples	2.2%		2.4%		2.4%		2.3%		...

* The 292 samples taken by Local Authorities include :—Boroughs of Chorley 4, Darwen 10, Lytham Saint Anne's 85, Middleton 113, Nelson 4, Urban Districts of Chadderton 10, Irlam 7, Prestwich 9, Urmston 1, and Westhoughton 49.

† The 1844 miscellaneous articles analysed comprised :—arrowroot, 48 ; baking powder, 69 ; barley, 16 ; bi-carbonate of soda, 32 ; butter, 154 ; cheese, 77 ; cocoa, 27 ; coffee, 154 ; condensed milk, 31 ; cornflour, 18 ; cream, 13 ; cream of tartar, 42 ; custard powder, 15 ; fish paste, 21 ; fruit and fish (canned), 28 ; gravy browning, 10 ; ground almonds, 14 ; ground ginger, 84 ; ground rice, 37 ; jam, 41 ; jelly, 13 ; lard, 135 ; margarine, 109 ; meat paste, 19 ; mustard, 18 ; oatmeal, 17 ; pepper, 121 ; rice, 30 ; sago, 14 ; sausages, 60 ; self-raising flour, 11 ; spice, 14 ; sugar, 31 ; sweets, 76 ; tapioca, 28 ; tartaric acid, 11 ; tea, 71 ; various other articles, 135.

TABLE 17—PROSECUTIONS ARISING OUT OF SAMPLES PURCHASED
DURING THE YEAR 1927.

POLICE DIVISION.	Samples reported for Prosecution.	Number of Prosecutions.	Convicted or Ordered to Pay Costs.	Dismissals.		Fines and Costs.		
				On Warranty.	For other reasons.			
						£	s.	d.
Lonsdale North.....	1	0	...	...	...	...
Lonsdale South.....	0	0	...	...	...	...
Garstang.....	1	1	1	...	...	6	9	6
Kirkham.....	1	1	1	...	...	4	0	0
Blackburn Lower.....	0	0	...	...	...	...
Blackburn Higher.....	2	0	...	...	...	...
Church	0	0	...	...	...	...
Rossendale	0	0	...	...	...	...
Leyland	3	2	2	...	...	6	6	2
Bolton.....	1	1	...	...	1	...		
Bury	0	0	...	...	...	...
Rochdale.....	6	5	4	1	...	27	13	0
Ashton-under-Lyne	0	0	...	...	...	...
Manchester.....	11	6	4	1	1	18	11	0
Seaforth	6	5	3	...	2	22	0	11
Ormskirk	2	2	2	...	...	7	0	5
Prescot	4	4	3	...	1	7	0	6
Widnes	2	1	1	...	...	9	7	7
Warrington.....	0	0	...	...	...	...
Wigan	3	0	...	...	...	...
County Police	43	28	21	2	5	108	9	1
Local Authorities	2	2	1	0	1	7	18	6
Totals	45	30	22	2	6	116	7	7

PREVALENCE OF, AND CONTROL OVER, INFECTIOUS DISEASES.

Notifications of Infectious Diseases.—Table 18, pages 106 to 119, gives the number of cases of infectious disease notified in each urban and rural district in the Administrative County during the year 1927, under the Infectious Disease (Notification) Act, 1889, the Public Health (Tuberculosis) Regulations, and under various other Regulations and Orders.

ADMINISTRATIVE COUNTY OF LANCASTER.

TABLE 18, showing HOSPITAL ACCOMMODATION and DISINFECTING APPARATUS provided in or for each of the County Districts ; also NUMBER OF CASES OF INFECTIOUS DISEASE NOTIFIED, REMOVED TO HOSPITAL, &c., during the year 1927.

(a) (c) (d) Totals supplied by local Medical Officers of Health ; (b) by Registrar-General.

DISTRICT.	Nature of Hospital Accommodation.		Infectious Diseases.																Disinfection.		No. of houses or rooms disinfected.							
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																									
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Group).	Enteric Fever (including Paratyphoid).	Acute Primary Pneumonia	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis	Malaria (contracted abroad).				Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.	Diphtheria (under 2 years).	Total.		
*Abram ...	8 beds	...	...	17	3	...	...	43	1	...	...	...	1	2	5	5	...	...	1	...	...	...	78	...	22		
Accrington (B) ...	At Blackburn C.B. Hospitals	...	...	(b)	10	1	...	16	1	...	...	...	...	...	...	4	2	...	...	...	...	...	23	...	123		
				(c)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12		...	
				(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1		...	
				(a)	53	15	1	64	3	...	3	...	2	...	6	26	32	11	...	54	...	7	1	...		270	...	
Adlington ...	...	...	...	(b)	1	...	1	49	1	...	...	...	...	...	...	23	7	...	...	...	...	...	94	...	7		
				(c)	7	7	...	...	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	17		...	
				(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...
				(a)	3	...	...	16	...	...	...	...	...	2	1	1	...	...	...	...	...	1	...	...		23	...
Chorley (B) ...	Joint at Heath Charnock, 36 beds	...	...	(b)	...	...	...	9	...	...	...	...	...	...	...	2	...	...	...	...	...	...	13	...	58		
				(c)	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		3	...
				(d)
				(a)	22	9	1	81	1	...	2	1	5	14	23	42	2	201	...
Leyland ...	...	...	...	(b)	18	5	1	28	...	...	...	...	...	...	15	5	...	...	...	...	...	...	61	...	47		
				(c)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		25	...
				(d)
				(a)	20	2	...	10	1	1	1	9	7	1	50	...
Chorley (R) ...	...	...	...	(b)	15	1	...	16	...	...	...	...	...	...	6	...	...	...	...	...	...	...	24	...	51		
				(c)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		16	...
				(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		1	...
				(a)	16	5	4	14	2	...	...	...	1	...	2	5	16	18	...	...	...	2	...	...		83	...
*Ashton-in-Makerfield	40 beds (Long Lane)	Nil	...	(b)	...	...	...	22	2	...	...	...	...	...	...	6	1	...	...	...	...	...	35	...	92		
				(c)	16	4	4	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26		...	
				(d)
				(a)	34	8	...	56	4	1	...	1	...	...	1	9	33	16	...	33	...	...	...	...		201	...
...	...	...	...	(b)	...	...	...	32	1	...	...	...	...	...	12	3	...	...	...	...	...	58	...	...		
				(c)	26	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	38	...
				(d)
				(a)

* Districts with asterisks combined in 1903 under the Wigan and District Joint Hospital Order for the purpose of providing a smallpox hospital, but no provision made. † Inward Transfers.
 † Cases not notified ; (at Chorley B one case of encephalitis lethargica not notified). ‡ Deaths now classified by Registrar-General as "Tuberculosis of respiratory system." † Tuberculosis cases

Nature of Hospital Accommodation.			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																Disinfection.									
DISTRICT.	For ordinary infectious diseases.	For Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute Primary Pneumonia.	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	§Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Malaria (contracted abroad).	Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.	Diphtheria (under 2 years).	Total.	Apparatus and where situated.	No. of houses or rooms or rooms disinfect.				
Ashton-under-Lyne (B)	20 beds ...	...	80	20	2	72	7	...	...	...	2	...	6	10	62	51	...	...	...	...	...	...	312	Steam—Town's Yard	311	
			...	...	...	47	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	118	...	...	
			...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	61	...	...
				
Audenshaw	2 beds, Hyde Borough Hospital	Joint at Hartshead—12 beds	10	3	1	18	2	...	...	...	...	1	3	6	1	1	...	...	1	...	...	...	46	Steam—Ashton-under-Lyne (B)	23	
			...	...	...	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17	...	...
			1	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	...	...
			...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Linchurst (R)	Nil	...	7	11	...	8	...	...	...	...	...	...	4	12	8	...	...	...	...	...	...	...	50	Steam—Ashton-under-Lyne (B)	20	
			...	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13	...	...
			1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...
				
*Aspull	At Wigan C.B. Hospital	Arrangement with Bury Joint	13	4	...	51	1	...	...	...	...	1	11	8	4	...	...	...	...	...	...	...	104	Steam—Hospital	...	
			...	1	...	18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	35	...	...
			3	3	
				
Atherton	...	...	47	57	...	57	10	...	1	...	...	6	17	24	20	...	...	...	...	...	...	...	248	Steam—Hospital	...	
			...	...	...	22	1	...	...	...	...	...	...	...	...	15	2	...	...	...	...	...	...	41	...	...
			37	53	...	...	3	...	...	...	...	...	...	...	...	4	...	...	...	...	...	...	...	98	...	...
			...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Golborne	...	...	4	6	...	2	4	...	...	...	...	...	6	15	16	...	...	...	...	...	...	...	84	Steam—Portable	...	
			...	...	...	2	...	...	...	...	...	...	...	...	...	...	1	5	...	...	...	...	...	13	...	...
			4	5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10	...	...
				
Leigh (B)	...	Joint at Astley for all purposes :—	36	85	2	87	7	3	...	...	...	10	31	57	27	...	...	...	...	...	...	...	350	Steam — Destructor Works	200	
			1	8	2	38	2	...	...	...	...	...	...	...	...	35	9	...	...	...	...	...	...	6	...	...
			21	73	2	2	3	4	108	
			...	5	2	1	10	
Tyldesley-with-Shakerley	128 beds	32 beds	34	9	3	44	3	...	...	...	...	2	12	8	5	...	...	...	...	...	...	...	218	Steam—Hospital	...	
			1	1	1	21	1	...	...	...	...	...	...	...	...	13	2	...	...	...	...	...	...	3	...	...
			21	6	2	...	2	36
			1	2	
Leigh (R)	...	...	17	14	1	29	2	...	...	...	...	2	19	12	9	...	...	...	...	...	...	...	135	No proper apparatus	115	
			...	...	1	13	...	...	...	...	...	...	...	...	...	11	1	...	...	...	...	...	...	...	...	...
			10	13	1	
			1	

TABLE 18—continued.

DISTRICT.	Nature of Hospital Accommodation.		Infectious Diseases.																			Disinfection.	No. of houses or rooms disinfectd.				
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																								
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute Influenza Pneumonia	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis	Malaria (contracted abroad).	Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.			Diphtheria (under 2 years).	Total.		
Bacup (B)	...	For ordinary infectious diseases.	Joint at Todmorden—32 beds	(a) ...	15	6	3	47	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	314	Steam—Town's Yard	172	
Barrowford	...	Arrangement with Bury Joint Hospital Board	Joint at Todmorden—32 beds	(b) ...	...	1	...	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	43	...	...
	...	At Nelson Borough Hospitals by arrangement	Joint at Todmorden—32 beds	(c) ...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...
	...		Joint at Todmorden—32 beds	(d) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
*Billinge-and-Winstanley	...	Nil	Cottage—4 beds	(a) ...	3	5	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	29	Steam—Billinge Infirmary	12
	Cottage—4 beds	(b) ...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	...	...
	...	Nil	...	(c) ...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
	(d) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
*Blackrod	(a) ...	7	...	...	11	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	29	Steam—Hospital	10 & 3 Schools
	...	Joint at Fall Birch, Horwich, 48 beds	...	(b) ...	...	...	...	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	...	...
	(c) ...	6	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	...	...
	(d) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
*Horwich	Joint at Fall Birch, Horwich, 48 beds	Bury and District Joint Hospital	(a) ...	67	28	...	67	1	...	...	...	...	...	...	...	...	...	...	40	359	...	...	...	603	Steam—Hospital	125
	(b) ...	...	5	...	10	...	...	...	...	...	...	...	...	...	...	...	...	6	...	...	...	50	...	...
	(c) ...	47	27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	74	Steam—Hospital	...
	(d) ...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	...	...
*Westhoughton	...	At Manchester C.B.	...	(a) ...	27	5	2	44	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	125	Steam—Hospital	45
	(b) ...	...	...	2	22	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	39	...	...
	(c) ...	21	4	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27	Steam—Hospital	...
	(d) ...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...
Brierfield	(a) ...	7	8	1	17	...	...	...	...	...	...	...	...	...	...	42	...	...	...	...	...	103	Steam—Nelson (B)	21
	(b) ...	1	...	1	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19	...	...
	(c) ...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	...	...
	(d) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Padiham	Joint with Burnley C.B. for all purposes (Kibble Bank) 116 beds	...	(a) ...	14	92	...	17	5	...	...	...	...	...	...	...	...	...	60	...	...	...	...	...	213	Steam—Burnley C.B.	145
	(b) ...	...	14	...	11	...	1†	...	...	...	...	...	...	...	...	...	...	3	...	...	...	30	...	...
	(c) ...	9	87	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	100	...	...
	(d) ...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...
Burnley (R)	(a) ...	21	11	1	17	...	...	1	...	...	...	...	...	...	...	8	...	...	...	...	...	95	Steam—Burnley C.B.	54
	(b) ...	...	4	...	16	...	1	...	...	...	...	...	...	...	...	...	...	2	...	...	...	34	...	...
	(c) ...	5	6	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16	...	...

DISTRICT.		For ordinary infectious diseases.		For Smallpox.		No. of cases notified.																	No. of deaths.							Apparatus and where situated.		No. of houses or rooms disinfected.
						Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute Primary Pneumonia.	Acute Influenzal Pneumonia.	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Malaria (contracted abroad).	Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.	Diarrhoea (under 2 years).	Total.					
Carnforth	...	2 wards—12 beds (Crag Bank)	Nil	...	...	...	10	...	...	...	...	1	...	...	...	...	...	...	...	...	4	1	...	...	...	...	...	16	No proper apparatus	14
						...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	1	...	...	...	6	...
						...	10	10	...	
						...	1	1	...	
Chadderton	...	At Oldham C.B. Hospital	}	...	...	1	52	64	1	35	4	...	...	...	...	...	2	...	6	9	32	15	...	64	...	...	...	285	No proper apparatus	178
						3	1	30	2	2	23	5	1	70	...
						1	24	40	65	...
						3	3	...	
Crompton	...	Do.	}	Joint at Racefield —26 beds	...	...	13	8	...	23	1	2	...	...	...	...	...	...	1	5	6	8	...	88	172	...	...	327	Steam — Destructor Works	32
						11	...	2	5	23	...	
						...	8	7	1	2	18	...	
						...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
Royton	...	Do.	}	...	...	...	11	7	...	25	2	...	...	...	...	2	...	...	...	6	7	4	...	26	...	...	...	90	Steam—Hospital	33
						...	...	1	...	8	...	...	...	...	4†	...	...	...	...	...	...	...	...	5	3	...	...	...	23	...
						...	3	3	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9	...
						...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
Church	...	Arranged with Blackburn C.B. as required	Agreement with Oswaldtwistle	...	...	...	11	2	...	15	...	...	...	...	...	...	...	1	3	3	2	...	...	...	...	...	37	Steam—Oswaldtwistle	17	
						16	6	4	1	27	...	
					
					
Clayton-le-Moors	...	At Burnley, &c., Joint Hospital	At Accrington Borough Hospital	...	...	...	3	1	...	...	...	...	...	...	...	...	...	...	...	5	2	...	...	...	...	...	11	Steam — Accrington (B)	10	
						...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	2	...	...	...	11	...
					
					
Clitheroe (B)	...	Arranged with Blackburn C.B. "in cases of emergency."	Arrangement with Blackburn C.B. —3 beds	...	...	...	3	44	4	12	3	...	...	...	...	2	...	...	1	9	4	4	...	...	...	...	82	Steam—Gas Works	54	
						2	1	14	2	10	2	32	...	
						1	7	...	
					
Colne (B)	...	12 beds ... Also arrangement with Burnley C.B.—3 beds	20 beds	...	...	...	60	19	3	85	5	...	...	...	...	2	...	3	33	16	12	...	27	...	...	...	340	Steam—Destructor Works	205	
						...	1	4	...	25	2	1†	...	...	...	...	...	...	...	...	...	...	18	6	...	...	...	...	66	...
						...	10	8	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	97	...
						...	...	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...
Croston	...	At West Lancashire Rural Hospital	Arrangement with Blackburn C.B.	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	Steam—Hospital	3	
						...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	9	...
						...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
						

† At Royton—2 inward transfers.

TABLE 18—continued.

DISTRICT.	Nature of Hospital Accommodation.		Infectious Diseases.															Disinfection.	No. of houses or rooms disinfected.					
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																					
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute Primary Pneumonia	Puerperal Fever, and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.			Malaria (contracted abroad).	Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.	Diarrhoea (under 2 years).	Total.
Dalton-in-Furness	For ordinary infectious diseases.	For Smallpox.	(a)	19	28	1	4	..	..	..	..	2+	..	..	4	22	7	..	..	..	..	..	81
(b)			2	5	..	..	..	..	..	..	..	..	..	..	..	..	17	3	..	4	..	1	38
(c)			19	28	1	48
(d)			2	4	6
Ulverston...	Joint at High Carley—40 beds	Arrangement with Kendal Joint Hospital 4 beds	(a)	17	2	1	..	8	..	..	..	1	..	..	3	24	8	..	..	..	..	..	56
(b)			..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	..	..	1	2	1	16
(c)			15	1	1	17
(d)		
Ulverston (R)	34 beds	3 beds at Farnington (Blackburn)	(a)	36	3	5	8	..	..	..	..	2	1	..	3	25	4	..	..	..	..	..	87
(b)			..	..	2	11	..	..	..	..	..	..	2	..	..	15	1	..	..	1	2	1	35
(c)			30	3	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	34
(d)			..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Darwen (B)	4 beds—Hyde Borough Hospital	2 beds, Hyde	(a)	65	5	..	77	15	2	..	..	1	..	2	10	24	10	..	..	..	..	..	211
(b)			2	..	..	42	1	..	..	..	..	..	1	..	..	13	2	..	..	1	2	2	66
(c)			38	1	..	7	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	50
(d)			1	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3
Denton	3 beds, Hyde Borough Hospital	1 bed, Hyde	(a)	50	15	..	40	3	1	..	..	..	..	1	7	17	12	..	..	..	..	..	146
(b)			..	1	..	7	..	..	..	..	..	..	..	..	..	11	4	..	..	..	1	4	28
(c)			13	5	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	20
(d)		
Droylsden	20 beds, Salford C.B. Hospital	6 beds, Salford	(a)	17	11	2	40	2	..	..	..	..	..	3	6	18	15	..	..	..	..	..	114
(b)			..	..	1	17	..	..	..	..	..	..	..	..	..	5	5	..	..	2	4	3	36
(c)			8	5	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15
(d)		
Eccles (B)	At Oldham C.B. Hospital and at Monsall (Manchester) for puerperal fever cases.	Chadderton, &c., Joint Board—2 beds	(a)	391	55	1	69	7	1	..	..	2	..	6	11	56	28	..	267	433	111	..	1438
(b)			..	2	..	34	1	1	..	..	..	..	..	..	..	3	42	6	..	5	2	3	98
(c)			50	48	1	105
(d)			..	2	3
Failsworth...	Arrangement with Salford C.B. and Leigh Joint Hospital	At Bury, &c., Joint Hospital	(a)	20	37	4	81	6	..	..	..	5	..	5	11	33	11	2	..	..	..	..	215
(b)			..	2	1	16	1	..	..	..	..	..	3	..	..	12	3	..	..	2	..	2	42
(c)			..	18	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	32
(d)			..	3	1	4
Farnworth	At Bury, &c., Joint Hospital	At Bury, &c., Joint Hospital	(a)	67	31	..	88	13	2	..	..	..	..	5	35	30	19	..	..	8	1	..	291
(b)			..	7	..	36	..	..	..	..	..	..	..	..	..	..	22	4	..	..	..	6	85
(c)			..	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	52
(d)			1	9	2

Nature of Hospital Accommodation.			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																			Disinfection.					
DISTRICT.	For ordinary infectious diseases.	For Smallpox.	Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute Influenzal Pneumonia	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis	Malaria (contracted abroad).	Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.	Diarrhoea (under 2 years).	Total.	Apparatus and where situated.	No. of houses or rooms disinfectcd.		
Fleetwood	...	Joint at Moss Side, 48 beds and 12 cots	(a)	32	9	..	53	4	..	1	..	..	..	..	10	48	11	..	..	39	..	2	..	207	Steam—Town's Yard	61
			(b)	..	3	..	21	..	..	..	..	..	..	..	..	20	3	..	..	..	..	2	..	51		
			(c)	11	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	13		
			(d)	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1		
Kirkham	...	Joint at Moss Side, 48 beds and 12 cots	(a)	8	1	..	7	..	..	..	..	..	..	..	..	7	..	..	..	..	..	1	..	23	No proper apparatus	18
			(b)	..	..	..	6	..	..	..	..	..	..	..	..	4	1	..	..	..	..	..	1	13		
			(c)	6	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7		
			(d)		
Lytham Saint Anne's (B)		Joint at Moss Side, 48 beds and 12 cots	(a)	15	22	1	21	3	..	..	..	..	..	..	2	24	17	..	85	..	1	..	..	192	Steam—At Refuse Destructors	390 (rooms)
			(b)	..	..	1	15	..	..	..	..	..	..	..	..	13	5	..	..	..	..	..	1	36		
			(c)	10	16	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	29		
			(d)	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1		
Poulton-le-Fylde		Joint at Elswick 29 beds	(a)	2	1	1	..	..	..	..	..	..	..	..	..	..	6	2	..	..	..	..	1	12	No proper apparatus	12
			(b)	..	..	..	4	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	6		
			(c)	2	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4		
			(d)		
Thornton Cleveleys		Joint at Elswick 29 beds	(a)	2	1	1	9	1	..	..	..	..	..	..	..	11	10	..	65	..	..	..	..	100	Steam—Council's Yard	29
			(b)	..	..	..	4	..	..	..	..	..	..	..	..	6	..	..	..	..	..	..	..	10		
			(c)	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2		
			(d)		
Fylde (R)...	...	Joint at Elswick 29 beds	(a)	36	7	2	7	1	..	1	..	..	..	..	..	16	7	7	..	..	..	..	1	77	No proper apparatus	56
			(b)	..	1	..	12	..	..	..	..	..	..	..	..	5	1	1	..	..	..	..	..	20		
			(c)	34	4	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40		
			(d)		
Fulwood	...	Joint at Fulwood 45 beds	(a)	11	2	1	30	5	..	..	..	..	..	..	7	7	10	..	36	..	..	..	..	113	Steam—Hospital	31
			(b)	..	2	..	6	..	..	..	..	..	..	..	..	2	1	1	..	..	..	..	..	11		
			(c)	3	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10		
			(d)	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1		
Longridge	...	Joint at Fulwood 45 beds	(a)	13	..	..	..	..	..	..	..	1+	..	..	1	2	..	..	..	..	1	..	..	16	Steam—Hospital	12
			(b)	..	..	..	4	..	..	..	..	..	..	..	..	3	1	1	..	..	..	..	..	11		
			(c)		
			(d)		
Preston (R)	...	Joint at Fulwood 45 beds	(a)	19	15	2	17	3	..	1	..	..	..	..	8	31	17	..	19	..	2	..	..	136	No proper apparatus	89
			(b)	..	1	..	21	1	..	..	..	..	..	..	..	6	4	4	..	..	..	..	3	38		
			(c)	19	13	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	38		
			(d)		

TABLE 18—continued.

DISTRICT.	Nature of Hospital Accommodation.		Infectious Diseases.																Disinfection.		No. of houses or rooms disinfected.			
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																					
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Group).	Enteric Fever (including Paratyphoid).	Acute Primary Pneumonia	Acute Influenzal Pneumonia	Fuerepal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Opthbalmia Neonatorum.	Erysipelas.	§Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Malaria (contracted abroad).	Chicken-pox.		Measles (excluding German Measles).	Whooping Cough.	Diarthæa (under 2 years).	Total.
Presall ...	For ordinary infectious diseases.	For Smallpox.	(a)	4	1	3	27	2	...	37
			(b)
			(c)	...	1	1
			(d)
Garstang (R)	Other Authorities take cases of infectious disease by arrangement	Joint at Ellswick (see previous page).	(a)	20	2	...	...	2	...	...	1	...	...	...	1	10	5	...	...	...	...	...	41
			(b)	1	6	1	1	13
			(c)	5	1	6
			(d)
Formby ...	At Bootle C.B. Hospitals	...	(a)	17	1	...	...	...	...	...	...	...	...	1	8	1	...	...	...	...	...	...	30
			(b)	1	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	8
			(c)	1	3
			(d)
Grange-over-Sands	At Kendal Borough Hospital	Arrangement with Kendal Joint Hospital	(a)	...	...	...	...	...	...	...	...	...	...	...	...	4	1	...	...	...	...	...	5
			(b)	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	3
			(c)
			(d)
Great Crosby	At Liverpool C.B. Hospitals	...	(a)	16	15	1	...	30	...	...	1	...	...	4	9	9	...	...	10	...	7	...	102
			(b)	1	...	...	8	1+	...	...	...	1	...	...	...	7	3	...	...	...	...	...	21
			(c)	7	11	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	19
			(d)
Great Harwood ...	Nil	Agreement with Blackburn C.B. —2 beds	(a)	16	19	...	...	...	1	...	...	...	...	8	8	6	...	...	1	...	...	...	87
			(b)	...	2	...	10	...	1+	...	...	...	...	...	...	7	...	...	...	...	1	...	22
			(c)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27
			(d)
Haslingden (B) ...	Agreement with Bury and District Joint Hospital Board	...	(a)	63	14	1	...	33	1	...	...	...	1	3	8	4	...	...	...	...	...	...	132
			(b)	1	3	1	18	...	...	...	...	...	...	...	...	5	4	...	...	2	4	...	39
			(c)	4	6	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15
			(d)	...	2	1	3
Haydock ...	10 beds at St. Helens C.B. Hospital	St. Helens Smallpox Hospital—3 beds	(a)	19	2	...	...	57	2	...	...	...	1	8	18	12	...	...	...	...	...	...	119
			(b)	...	1	...	19	...	...	...	...	...	...	...	...	2	4	...	...	7	1	...	36
			(c)	17	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20
			(d)	...	1	1
Heysham	8 beds	6 beds.	(a)	1	2	...	...	11	...	...	...	...	2	8	1	...	...	...	...	...	...	...	36
			(b)	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	9
			(c)
			(d)

Nature of Hospital Accommodation.		Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.														Disinfection.									
DISTRICT.	For ordinary infectious diseases.	For Smallpox.	Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Group).	Enteric Fever (including Paratyphoid).	Acute Primary Pneumonia Acute Influenza Pneumonia	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Other forms of Tuberculosis.	Malaria (contracted abroad).	Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.	Diphtheria (under 2 years).	Total.	Apparatus and where situated.	No. of houses or rooms disinfected.	
Heywood (B)	At Rochdale C.B. Hospital (Marland)	At Bury, etc., Joint Hospital	(a) ... (b) ... (c) ... (d) ...	61 ... 50 ...	11 ... 2 ... 7 ...	4 ... 3 ...	45 ... 22 ...	2	1	1	3 ... 4†	5 ...	19 ...	23 ... 14 ...	20 ... 5	37 ...	3	5 ...	2	232 ... 57 ... 60 ...	Steam—Sewage Works	104
*Hindley ...	16 beds for scarlet fever; also at Horwich and Leigh Joint Hospital for enteric and diphtheria when beds available	Leigh Joint Hospital by arrangement	(a) ... (b) ... (c) ... (d) ...	24 11 ...	3 2	81 ... 32 ...	2 ... 2 ... 1 ... 1	1 ... 2†	2 ...	9 ...	38 ... 13 ...	18 ... 5	66 ...	2	4 ...	6	246 ... 66 ... 16 ... 1 ...	Steam—Gas Works ...	78
Huyton-with-Roby	1 bed at Whiston (more if vacant)	1 bed at Whiston (more if vacant)	(a) ... (b) ... (c) ... (d) ...	7 5 ...	1 1 ...	... ... ...	2 ... 6 ...	1 ...	... ... ...	... ... ...	... ... ...	... ... ...	... ... ...	... ... ...	... ... ...	6 ... 2 ...	1 ... 1 ...	... ... ...	... ... ...	3 ...	2 ...	19 ... 14 ... 6 ...	Steam—Hospital ...	17
*Ince-in-Makerfield	13 beds ...	10 beds ...	(a) ... (b) ... (c) ... (d) ...	5 ... 19 14 ...	7 ... 1 ... 6 ... 1 ...	... ... ...	88 ... 48 ...	2 1 ... 1 ...	1 ... 1 ... 1 ... 1 ...	... ... ...	... ... ...	1 ... 1 ... ... ...	... ... ...	1 ...	17 ...	42 ... 24 ...	20 ... 8 ...	... ... ...	57 ...	... 14 ...	2 ...	260 ... 103 ... 27 ... 2 ...	Steam—Hospital ...	65
Irlam ...	At Salford C.B. Hospital (no contract)	2 beds, Salford by agreement	(a) ... (b) ... (c) ... (d) ...	66 1 ...	7	2	17 ... 3 ...	4	2 ... 1 ... 1 ...	... ... ...	... 1† ... ...	... ... ...	... ... ...	... ... ...	1 ...	10 ... 10 ...	16 ... 5 ...	... ... ...	... ... ...	... ... ...	2 ...	125 ... 23 ... 2 ... 1 ...	Steam—Council Offices	79
Kearsley ...	At Salford C.B. Hospital	At Bury, etc., Joint Hospital	(a) ... (b) ... (c) ... (d) ...	26 8 ...	... ... ...	... ... ...	10 ... 9 ...	... ... ...	... 1† ... ...	... ... ...	... ... ...	... ... ...	... ... ...	... ... ...	5 ...	17 ... 8 ...	4 ... 2 ...	... ... ...	... ... ...	... 1 ...	2 ...	62 ... 23 ... 8 ...	Steam—Farnworth	37
Lancaster (B)	32 beds, Luneside	11 beds, Littlefell	(a) ... (b) ... (c) ... (d) ...	157 ... 1 ... 125 ... 1 ...	24 15 1 ...	10 ... 2 ... 7 ... 1 ...	84 ... 51 ... 11 ...	6 ...	... ... ...	1 ... 1 ...	... ... ...	4 ... 3 ... 1 ... 1 ...	... ... ...	12 ...	32 ...	70 ... 36 ...	22 ... 5 ...	... ... ...	... ... ...	... 2 ...	4 ...	422 ... 112 ... 160 ... 3 ...	Steam—Hospital ...	234
Lathom and Burscough	Joint at Green Lanc—26 beds	Arrangement with Liverpool C.B.	(a) ... (b) ... (c) ... (d) ...	7 4 ...	12 ... 1 ... 11 ... 1 ...	1	18 ... 4 ...	... ... ...	... ... ...	... ... ...	... ... ...	2 ... 1 ... ... ...	... ... ...	4 ...	5 ... 3 ...	5 ... 1 ...	... ... ...	89 ...	... ... ...	... 1 ...	2 ...	143 ... 13 ... 15 ... 1 ...	Steam—Hospital ...	36
Ormskirk			... ... ... ...	22 18 ...	28 16 ...	27 ... 9 ...	2 1 ...	... ... ...	1 ... 1 ...	... ... ...	5 ... 4 ...	7 ... 2 ...	... ... ...	32 ...	... ... ...	... 2 ...	1 ...	140 ... 19 ... 35 ...	Steam—Hospital ...	125				

† At Hindley—One inward transfer. ‡ At Heywood (B)—One case not notified.

† At Hindley—One inward transfer. ‡ At Heywood (B)—One case not notified.

TABLE 18—continued.

DISTRICT.	Nature of Hospital Accommodation.		Infectious Diseases.																Disinfection.	No. of houses or rooms disinfectd.							
			Note.—(a) Cases notified. (b) Total Deaths. (c) Removals to hospital. (d) Deaths in hospital.																								
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute/Primary Pneumonia/Influenza Pneumonia	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Malaria (contracted abroad).			Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.	Diphtheria (under 2 years).	Total.		
Lees	For ordinary infectious diseases.	For Smallpox.	7	...	...	...	5	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	23	No proper apparatus	10	
Litherland	At Oldham C.B. Hospital	Arrangement with Chadderton, etc., Joint Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	118
Littleborough	At Bootle C.B. Hospitals	...	37	31	1	3	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
			
			
			
Milnrow	Joint at Smithy Bridge—16 beds	At Bury, etc., Joint Hospital	19	31	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
				
			
			
Wardle	7	4	...	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
			
			
			
Little Crosby	At Liverpool C.B. Hospitals	...	12	23	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
			
			
			
Little Hulton	At Bolton C.B. Hospital and at Leigh Joint Hospital	Salford ...	6	4	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
			
			
			
Little Lever	At Bury, etc., Joint Hospitals	...	5	...	...	17	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
			
			
			
Middleton (B)	At Rochdale C.B. Hospital	At Chadderton, etc., Joint Hospital	36	39	...	67	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
			
			
			

TABLE 18—continued.

Nature of Hospital Accommodation.		Infectious Diseases.																			Disinfection.	No. of houses or rooms disinfected.					
		Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																									
DISTRICT.	For ordinary infectious diseases.	For Smallpox.	Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute Primary Pneumonia	Acute Influenza Pneumonia	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	§Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Malaria (contracted abroad).	Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.	Diphtheria (under 2 years).	Total.			
			(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)	
Radcliffe ...			...	138	47	...	73	2	2	...	...	...	1	...	3	9	21	14	...	...	...	...	...	...	308
Ramsbottom ...	At Hospitals of the Bury and District Joint Hospital Board :—	90 beds	(b)	1	3	...	25	...	...	...	...	...	...	...	2	...	...	5	...	...	...	...	...	...	50
			(c)	123	45	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	174
			(d)	1	3	4	
			(a)	14	3	1	49	6	4	8	9	14	...	27	136
Tottington ...	40 beds	(b)	2	...	...	14	1	...	...	...	...	...	...	...	...	...	11	1	...	...	...	...	...	...	33
		(c)	13	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17
		(d)	
		(a)	18	19	...	40	1	3	7	4	4	...	36	132	
Whitefield ...			(b)	...	...	...	13	...	...	...	...	...	...	...	...	...	4	1	...	...	...	...	...	...	20
			(c)	14	15	...	8	2	39	
			(d)	4	4	
			(a)	21	14	...	15	4	11	3	...	27	95
Bury (R) ...			(b)	...	2	...	7	...	...	...	...	...	...	...	...	...	5	1	...	...	...	...	...	...	15
			(c)	16	14	1	31	
			(d)	...	2	2	
			(a)	36	6	...	17	2	3	6	10	7	...	34	122
Rainford ...	Smallpox Hospital when not required for small-pox cases	4 beds ...	(b)	2	...	...	15	...	...	...	...	...	...	...	...	...	4	1	...	...	...	...	...	...	25
			(c)	25	25	
			(d)	1	1	
			(a)	2	1	...	5	1	4	13
Rawtenstall (B) ...	Arrangement made with Bury and District Joint Hospital Board	22 beds (The Ridge)	(b)	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
			(c)
			(d)
			(a)	13	19	4	21	1	5	20	22	26	132
Rishton ...	Can send to Blackburn C.B.	At Oswaldtwistle by agreement	(b)	...	2	...	15	...	...	...	...	...	...	...	...	...	14	6	...	...	...	...	...	...	40
			(c)	1	5	1	7	
			(d)	...	1	1
			(a)	10	4	...	32	1	1	8	6	9	...	26	177	276
Shallescote			(b)	...	1	...	6	2	2	13		
			(c)	1	1	4
			(d)	...	1	2
			(a)	4	1	5	1	5	1	19
			(c)		
			(d)		

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Nature of Hospital Accommodation.		Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.														Disinfection.									
DISTRICT.	For ordinary infectious diseases.	For Smallpox.	Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute Influenza Pneumonia and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	§ Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Malaria (contracted abroad).	Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.	Diphtheria (under 2 years).	Total.	Apparatus and where situated.	No. of houses or rooms disinfected.		
*Standish-with-Langtree	Cases are sent to Wigan C.B. Hospitals by arrangement	Nil	(a) ... (b) ... (c) ... (d) ...	18 1	2	1	37 ... 11	1	1 ... 1	1 ... ... ... ...	... ... ... ... ...	1	6	6 ... 1	7 ... 1 ... ...	... ... ... ... ...	... ... ... ... ...	11 ... ... ... ...	... ... ... ... ...	... ... ... ... ...	... 1	92 ... 15 ... 1	No proper apparatus	17
Stretford ...	At Salford C.B. Hospitals	...	(a) ... (b) ... (c) ... (d) ...	146 58	23 ... 1 ... 9 ... 1 ... 1 ...	1 ... 2 ... 1 ... 1 ... 1 ... 1 ...	84 ... 48	9 ... 2 ... 2 ... ...	... ... ... ... ...	5 ... 2 ... 1 ... 1 ... 1 ...	... ... ... ... ...	8	18 1	18 1	78 ... 34	28 ... 4 ... ...	... ... ... ... ...	10 ... ... ... ...	... 1 ... ... ... ...	... 6 ... ... ... ...	... ... ... ... ...	410 ... 101 ... 72 ... 3 ...	*Steam—Sanitary Depot	298 rooms
Swinton and Pendlebury	At Salford C.B. Hospital	Joint at Linnyshaw Moss—18 beds	(a) ... (b) ... (c) ... (d) ...	94 ... 1 ... 43	14 ... 2 ... 11 ... 1 ... 1 ...	1 ... 1 ... 1 ... 1 ... 1 ... 1 ...	107 ... 24	5 ... 1 ... 3 ... 1 ... 1 ...	1	8 ... 4 ... 1 ... 1 ... 1 ...	... ... ... ... ...	4	26 1	38 ... 24	21 ... 6	157 ... ... ... ...	... ... ... ... ...	... 2 ... ... ... ...	... 1 ... ... ... ...	... ... ... ... ...	... ... ... ... ...	477 ... 66 ... 61 ... 3 ...	Steam—Destructor Works	328 rooms & 502 school-rooms.
Worsley ...	At Salford C.B. Hospital		(a) ... (b) ... (c) ... (d) ...	18 4	4	1	4 ... 17	3 ... 1 ... ...	... ... ... ... ...	... ... ... ... ...	1† ... ... ... ...	... ... ... ... ...	1	1	9 ... 4	6 ... 4 ... ...	... ... ... ... ...	35 ... ... ... ...	... ... ... ... ...	... ... ... ... ...	... ... ... ... ...	81 ... 27 ... 4	Steam—Hospital ...	...
Trawden ...	At Colne Borough Hospitals		...	(a) ... (b) ... (c) ... (d) ...	3	1 ... 1 2	1	1	23 ... 5 ... 17	2	21 ...	Steam—Nelson (B) ...	21
Turton ...	At Bury, etc., Joint Hospital		2 beds (Bury, etc., Joint Hospital)	(a) ... (b) ... (c) ... (d) ...	29 22	10 ... 2 ... 7	2 1	5 ... 6	2 ... 3†	1	1	8	8 ... 9	9 ... 3	75 ... 26 ... 30 1 2	58 ...	Steam—Hospital ...	58
*Upholland	At Wigan C.B. Hospital	Nil	(a) ... (b) ... (c) ... (d) ...	5 3	1 ... ... ... ...	... ... ... ... ...	... 4	2 ... ... ... ...	... ... ... ... ...	... ... ... ... ...	... ... ... ... ...	1	1	5 ... 1	9 ... 2	26 ... 8 ... 3 ... ...	... ... ... ... ...	3 ... 1 ... ...	... ... ... ... ...	... ... ... ... ...	... ... ... ... ...	10 ...	Steam—Billinge Work-house	10
Urnston ...	At Salford C.B. Hospitals (2 beds)	...	(a) ... (b) ... (c) ... (d) ...	20 9	8 6 ... ...	... ... ... ... ...	4 ... 5 ... ...	... ... ... ... ...	1	1† ... ... ... ...	... ... ... ... ...	2	1	6 ... 7	3 ... 4	45 ... 17 ... 15 ... ...	... ... ... ... ...	... ... ... ... ...	... ... ... ... ...	... ... ... ... ...	... ... ... ... ...	30 ...	Steam—Salford C.B.	30
Walton-le-Dale ...	20 beds (School Lane)	8 beds (Bradkirk)	(a) ... (b) ... (c) ... (d) ...	34 33	6 6 ... ...	... ... ... ... ...	15 ... 14	1	1	1 ... ... ... ...	... ... ... ... ...	1	3	15 ... 7	9 ... 4	108 ... 27 ... 40	22 ... ... ... ...	... 1 ... ... ... ...	... ... ... ... ...	... 1 ... ... ... ...	... ... ... ... ...	79 ...	Steam—Hospital ...	79

† At Turton—2 inward transfers.

TABLE 18—continued.

DISTRICT.	Nature of Hospital Accommodation.		Infectious Diseases.																			Disinfection.	No. of houses or rooms disinfected.									
			Note.—(a) Cases notified. (b) Total Deaths. (c) Removals to hospital. (d) Deaths in hospital.																													
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute Primary Pneumonia.	Acute Influenza Pneumonia.	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Malaria (contracted abroad).	Chicken-pox.	Measles (excluding German Measles).			Whooping Cough.	Diphtheria (under 2 years).	Total.						
Waterloo-with-Seaforth	For ordinary infectious diseases.	For Smallpox.	At Liverpool Borough Hospitals	...	(a) ... (b) ... (c) ... (d) ...	72 2 44 1	28 ... 23 ...	4 1 2 1	44 23 10 3	44 1	4 1	1	...	...	...	...	...	...	...	...	...	...	...	...	954 68 84 5	Steam—Council's Yard	295					
Whitworth			Arrangement with Rochdale C.B.	At Bury, &c., Joint Hospital	7 ... 3 ...	2 1 1 1	...	15 9	1 ... ... ...	...	...	...	...	2	6	13 11	4 2 ... ...	...	...	...	...	...	...	...	50 31 4 1			No proper apparatus	26			
Widnes (B)			36 beds (Crow Wood)	8 beds (Barrow's Green)	24 ... 18 ...	99 2 93 ...	32 ... 32 ...	305 41	16 3 7 3	...	...	...	1	...	11 ... 8 ...	20 39	84 54	54 7 ... ...	...	...	...	...	...	...	...					648 119 160 3	Steam—Hospital ...	242
Withnell ...			28 beds ...	1 bed at Farnington (Blackburn)	1 1	1	9 2	2		
Barton-upon-Irwell (R)	At Salford C.B. Hospitals (5 beds)	Hospitals (2 beds)	53 ... 22 ...	15 1 12 ...	1 ... 1 ...	23 6	2 1 2 ...	...	...	...	2	...	1	1	4 9	12 16	16 4 ... ...	...	...	...	...	...	...	...	145 23 38 ...	Steam—Salford C.B.	60					
Blackburn (R)	Cases can be removed to Blackburn C.B. Hospital	1 bed at Farnington (Blackburn)	10 ... 4 ...	2 ... 2 ...	...	6 10	1 ... 1 ...	...	...	...	...	...	...	...	1	12 8	3 3 ... ...	...	...	...	...	...	...	...	...			35 24 7 ...	No proper apparatus	37		
Clitheroe (R)	Nil	Arrangement with Blackburn C.B.	8	7	1	23 4 ... ...	...	...	...	...	...	58	...	7	17 5	5 1 ... ...	...	...	...	...	...	...	...	...	126 11			No proper apparatus			15	
Lancaster (R)	At Lancaster Borough Hospitals	...	9 ... 6 ...	3 ... 1	3 2	1	7 5	5 2							28 11 7 ...	No proper apparatus	18
Lunesdale (R)	Hospital at Farleton (12 beds)	...	4 4	... ... ... ...	...	... ... ... ...	2	...	...	...	...	...	...	...	...	4 3 ... ...	...	...	...	...	...	...	...	...	...	10 7 4 ...	Steam—Guardians Institution					4

TABLE 18—continued.

DISTRICT.	Nature of Hospital Accommodation.	Infectious Diseases.																			Disinfection.	No. of houses or rooms disinfectcd.					
		Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																									
		Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Group).	Enteric Fever (including Paratyphoid).	Acute Influenzal Pneumonia	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	§Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Malaria (contracted abroad).	Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.			Diarrhoea (under 2 years).	Total.			
Sefton (R)	...	For ordinary infectious diseases.	At Liverpool C.B. Hospitals	...	(a) 8	13	1	2	...	...	...	1	...	...	2	8	9	...	...	...	...	...	...	44	Steam—Liverpool C.B.	27
Warrington (R)	...		At Warrington C.B. and Newton-in-Makerfield	At Warrington C.B.	(a) 20	6	1	48	3	...	...	...	2	13	9	9	...	...	...	...	...	...	...	112	Steam—Warrington C.B.	33
West Lancashire (R)	26 beds—(Aughton)		Tent—8 beds. Arrangement with Liverpool Corporation for additional accommodation		(a) 4	35	11	60	3	...	...	...	...	6	1	12	9	1	152	...	...	...	...	300	Steam—Hospital	72
Whiston (R)	36 beds ...		20 beds ...		(a) 30	30	...	14	1	...	...	...	...	1	9	35	13	...	...	...	...	...	145	Steam—Hospital	70	
*Wigan (R)	...	Cases may be sent to Wigan C.B. Hospital by arrangement	Cottage—4 beds		(a) 2	2	1	24	3	...	...	...	1	...	1	3	2	...	...	...	...	...	49	No proper apparatus	6	
County, 1927 :—					190	3404	1567	133	3518	265†	17	23	6	107	69	208	801	1979	1162	5	2350	1871	120	...	17795	9442	
Total cases notified				...	1	23	109	26	1626	40	15	3	2	89	1105	296	177	109	174	...	3795	Total houses or rooms disinfectcd... ..
" deaths				...	188	1705	1076	88	57	61	11	4	...	13	...	19	34	...	...	...	5	...	...	...	3256	schools or school-rooms.
" removals to hospital				...	...	9	62	12	12	10	7	...	...	...	...	...	...	...	...	...	...	...	...	...	119	...
" deaths in hospital				...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

† 68 cases notified as puerperal fever, and 197 as puerperal pyrexia.

Table 19, which is compiled from the information supplied by local Medical Officers of Health in their annual reports, shows the number of notifications (excluding tuberculosis) in the year 1927, the number of cases admitted to hospital, and the total deaths from the notifiable diseases :—

TABLE 19—NOTIFIABLE DISEASES (OTHER THAN TUBERCULOSIS)
DURING THE YEAR, 1927.

“ NOTIFIABLE ” DISEASES.	TOTAL CASES NOTIFIED.														TOTAL CASES RE- MOVED TO HOSPITAL.	TOTAL DEATHS.
	Total Cases at all Ages.	YEARS.														
		Und'r 1	1-2	2-3	3-4	4-5	5-10	10-15	15-20	20-35	35-45	45-65	65 and over.			
Smallpox	190	1	...	...	...	...	27	14	38	39	19	41	11	188	1
Scarlet Fever	3404	19	66	171	264	364	1536	573	196	163	39	10	3	1705	23	
Diphtheria, including Membranous Croup .	1567	18	43	75	111	108	633	294	95	138	36	16	...	1076	109	
Enteric Fever (includ- ing Paratyphoid) ...	133	...	...	...	1	2	29	27	15	27	15	16	1	88	26
Acute Primary Pneumonia Acute Influenzal Pneumonia	3518	165	243	204	141	145	460	181	185	532	376	583	303	57	1626*	
Puerperal Fever	68	...	...	...	...	...	...	...	3	56	9	...	...	} 61	40†
Puerperal Pyrexia	197	...	...	...	...	...	...	...	6	165	25	1	...		
Cerebro-spinal Fever...	17	3	...	...	2	...	6	2	...	2	1	1	...	11	15
Acute Poliomyelitis ...	23	2	3	2	4	1	6	3	...	2	...	...	...	4	3
Acute Polio-encephalitis	6	...	2	1	...	...	...	...	1	...	1	1	...	...	2
Encephalitis Lethargica	107	...	2	...	3	1	2	4	15	27	12	29	12	13	89	
Dysentery	69	...	...	...	...	4	25	15	11	8	3	3	...	...	...
Ophthalmia Neonat'm	208	208	...	...	...	...	...	...	...	...	...	...	...	19	...
Erysipelas	801	7	6	7	1	...	15	26	42	120	133	345	99	34	...	
Malaria (contracted abroad)	5	...	...	...	...	...	...	...	...	1	3	1	...	...	...
‡Chicken-pox	2350	...	...	...	...	...	...	...	...	...	...	...	...	...	...
‡Measles (excluding German Measles) ...	1871	...	...	...	...	...	...	...	...	...	...	...	...	5	177§
‡Whooping Cough ...	120	...	...	...	...	...	...	...	...	...	...	...	...	...	109§
‡Anthrax	1	...	...	...	...	...	...	...	...	1	...	...	...	1	...

* Deaths from pneumonia (all forms) ; † Deaths classified together as puerperal sepsis ; ‡ In 1927 chicken-pox was notifiable in 58 districts, measles in 7 districts, whooping-cough in 6 districts, diarrhoea in 1 district, and anthrax in 2 districts. § In whole county.

The tabular statement below compares the notifications in 1927 with the preceding year :—

	1926	1927
Smallpox	111	190
Scarlet Fever	3,222	3,404
Diphtheria	1,286	1,567
Enteric Fever	115	133
Acute Primary Pneumonia and Acute Influenzal Pneumonia	3,023	3,518
Puerperal Fever	106	68
Puerperal Pyrexia	56†	197
Meningococcal Meningitis (Cerebro-Spinal Fever)	9	17
Acute Poliomyelitis	31	23
Acute Polio-Encephalitis	2	6
Encephalitis Lethargica	159	107
Dysentery	66	69
Ophthalmia Neonatorum	172	208
Erysipelas	813	801
Malaria (contracted abroad)	8	5
*Chicken-pox	3,353	2,350
*Measles	1,699	1,871
*Whooping Cough	706	120
*Diarrhoea (under 2 years)	22	...
*Anthrax	1	1

* See note to Table 19, above. † Three months only.

Deaths from the Principal Infectious Diseases.—Table 20, below, gives the death-rates per 1,000 of the population from the principal infectious diseases for the year 1927, and the preceding thirty-two years, showing the five years' averages.

TABLE 20—PRINCIPAL INFECTIOUS DISEASES.

Annual Death-rate per 1,000 of the Population.

YEAR.	Smallpox.	Scarlet Fever.	*Diphtheria.	†Enteric Fever.	Measles.	Whooping Cough.	‡Diarrhœa, &c.
1895	0·009	0·23	0·10	0·23	0·50	0·38	0·95
1896	0·005	0·24	0·09	0·23	0·49	0·36	0·48
1897	Nil.	0·15	0·08	0·19	0·66	0·27	0·77
1898	0·0005	0·10	0·07	0·26	0·25	0·19	1·00
1899	0·0005	0·18	0·18	0·24	0·44	0·26	1·05
Average 5 years, 1895–1899 ...	0·0030	0·13	0·10	0·23	0·46	0·29	0·85
1900	0·0015	0·18	0·26	0·20	0·43	0·37	0·60
1901	Nil.	0·18	0·34	0·20	0·18	0·20	0·95
1902	0·0119	0·20	0·30	0·16	0·35	0·19	0·28
1903	0·0366	0·18	0·19	0·15	0·37	0·26	0·40
1904	0·0116	0·18	0·15	0·12	0·43	0·35	0·66
Average 5 years, 1900–1904 ...	0·0123	0·13	0·24	0·16	0·35	0·27	0·57
1905	0·0033	0·13	0·15	0·14	0·26	0·15	0·52
1906	Nil.	0·11	0·16	0·14	0·36	0·13	0·79
1907	0·0005	0·09	0·15	0·09	0·37	0·28	0·26
1908	0·0005	0·10	0·16	0·12	0·18	0·24	0·54
1909	Nil.	0·12	0·15	0·10	0·35	0·14	0·18
Average 5 years, 1905–1909 ...	0·0008	0·11	0·15	0·11	0·30	0·18	0·45
1910	Nil.	0·10	0·11	0·10	0·15	0·23	0·29
1911	Nil.	0·08	0·14	0·12	0·29	0·15	†1·43
1912	Nil.	0·05	0·12	0·08	0·30	0·24	0·30
1913	Nil.	0·05	0·11	0·10	0·31	0·13	0·85
1914	Nil.	0·09	0·13	0·07	0·28	0·18	0·48
Average 5 years, 1910–1914 ...	Nil.	0·07	0·12	0·09	0·26	0·18	0·67
1915	Nil.	0·08	0·14	0·07	0·49	0·20	0·52
1916	0·003	0·06	0·15	0·05	0·17	0·14	†0·27
1917	Nil.	0·03	0·13	0·04	0·27	0·11	0·18
1918	Nil.	0·03	0·15	0·05	0·20	0·31	0·19
1919	Nil.	0·04	0·13	0·02	0·07	0·05	0·16
Average 5 years, 1915–1919 ...	0·0006	0·04	0·14	0·04	0·24	0·16	0·26
1920	0·0005	0·03	0·11	0·03	0·19	0·09	0·25
1921	Nil.	0·03	0·09	0·02	0·04	0·15	0·27
1922	0·0005	0·05	0·08	0·02	0·20	0·12	0·13
1923	Nil.	0·03	0·05	0·02	0·07	0·11	0·12
1924	Nil.	0·02	0·05	0·01	0·14	0·13	0·13
Average 5 years, 1920–1924 ...	0·0002	0·03	0·07	0·02	0·12	0·12	0·18
1925	Nil.	0·03	0·06	0·009	0·10	0·13	0·13
1926	0·0005	0·01	0·05	0·008	0·09	0·13	0·11
1927.							
Administrative County ...	0·0005	0·01	0·06	0·01	0·09	0·06	0·09
Urban Districts ...	Nil.	0·01	0·06	0·01	0·10	0·06	0·10
Rural Districts ...	0·003	0·007	0·04	0·01	0·05	0·02	0·05
England and Wales ...	0·00	0·01	0·07	0·01	0·09	0·09	0·11

* In 1899 Membranous Croup included.

† Prior to 1911 the "Fever" death-rate included deaths from Typhus and Continued Fevers (if any).

‡ From 1911, Enteritis deaths included. Since 1916, the "Diarrhœa" death-rate includes deaths from Diarrhœa, &c., under two years of age only.

Smallpox.—During the year under report there was an increase in the prevalence of mild smallpox, viz. 190 cases, compared with 111 cases in 1926 ; 41 in 1925 ; 102 in 1924 ; 77 in 1923 ; 11 in 1922 ; and none in 1921.

Referring to the year 1926, the Chief Medical Officer of the Ministry of Health in his annual report states :—“ Only 139 cases of smallpox occurred in this County (the geographical county of Lancaster) during the year 1926. There were 23 sanitary districts invaded, but no considerable extension of the disease took place in any of them, the largest number of cases in any one district being 34 in the Borough of Colne. Lancashire is to be congratulated upon the manner in which it has dealt with smallpox during recent years in spite of the fact that it has been invaded on a considerable number of occasions. The active co-operation between the County Medical Officer of Health and his staff and the public health officials of the local authorities of invaded districts in the Administrative County has no doubt contributed to this result.”

The County districts affected in 1927, and the condition as to vaccination of the persons attacked are set out below :—

DISTRICT.	No. of Cases.	Vaccinal Condition.		
		Unvaccinated.	Vaccinated in infancy.	Doubtful.
Ashton-in-Makerfield ...	5	4	1	...
Atherton	1	...	1	...
Brierfield	1	...	1	...
Chadderton	1	1	...	...
Colne (B)	75	52	23	...
Farnworth	1	1	...	...
Formby	2	2	...	...
Fulwood	4	2	1	1
Great Harwood	28	25	3	...
Haslingden (B)	3	3	...	...
Hindley	2	...	2	...
Ince-in-Makerfield	5	4	1	...
Lytham Saint Anne's (B)	2	1	...	1
Morecambe (B)	1	1	...	...
Nelson (B)	17	15	2	...
Padiham	1	1	...	...
Rishton	1	...	1	...
Swinton and Pendlebury	1	...	1	...
Trawden	17	8	9	...
Tyldesley-with-Shakerley	4	...	4	...
Wardle	7	5	2	...
Burnley (R)	3	1	2	...
Preston (R)	4	2	2	...
West Lancashire (R)	4	4	...	...
	190	132	56	2

One death was registered as due to smallpox in the Limehurst rural district—a tramp who died in the Union Workhouse. The case had not been notified.

Under the Public Health (Smallpox Prevention) Regulations, 1917, local Medical Officers of Health, as such, performed the following vaccinations :—primary, 1,444 ; re-vaccinations, 2,046.

Following outbreaks of smallpox, vaccinations performed numbered :—Formby, 2,035 ; Great Harwood, 787 (school children and teachers) ; Colne (B) and Trawden, 1,853, &c.

In the majority of the outbreaks of smallpox, the medical, inspectorial, and, where necessary, the nursing and clerical staffs of the County Medical Officer of Health's department co-operated closely with the local health officials in the steps taken to control the disease.

In most outbreaks a detailed report on the occurrence was prepared, and submitted to the County and Local Health Committees from which the following brief notes are extracted :—

Ashton-in-Makerfield.—5 cases. Infection introduced from Yorkshire in June ; 4 young children unvaccinated, one adult vaccinated in infancy.

Atherton.—1 case in December, male, 67 years of age, vaccinated forty years ago. Source probably a missed case.

Brierfield.—1 case in October, male, 53 years, vaccinated. Source unknown.

Chadderton.—1 case in May, male, 26 years, unvaccinated.

Colne (B).—75 cases. First case notified in October. Epidemic centred round a common lodging house; probable source, a travelling musician. One patient had a very slight attack, but evidently was in a very infectious condition; in all he infected 22 persons. Hospital accommodation had to be extended. Outbreak in Trawden—17 cases—closely associated with Colne cases. Thirty-two of the 92 cases had been vaccinated, but only 3 of the vaccinated persons were under 40 years of age. Vaccinations performed numbered 1,853, including 463 in schools. Visits to 547 contacts in Colne numbered 5,040.

Farnworth.—1 case in December, male, 15 years, unvaccinated. Source unknown.

Formby.—2 cases in January and February; male, 18 years, unvaccinated, had visited Durham and Yorkshire during Christmas holidays, and a female, 16 years, unvaccinated. Vaccinations and re-vaccinations numbered 2,035.

Fulwood.—Four cases—two in July and two in August. First case, in the poor law institution, a tramp, 58 years, vaccinated; three other cases in the same institution, ages 62, 56 and 62 years; said to have been vaccinated in infancy, in one case no evidence of this.

Great Harwood.—28 cases. First intimation of disease was a notification from a Lancashire County Borough, June 27th, that a visitor from this district had been found to be suffering from smallpox. First case notified in Great Harwood, July 4th. Within the first week 17 other cases were notified. Last case reported September 1st. In addition to the 28 cases notified, 19 missed cases were discovered. Of the 28 cases, 3 were vaccinated, 1 vaccinated but did not take, 24 not vaccinated, and of the 19 missed cases 4 were vaccinated, 1 doubtful, and 14 not vaccinated. The 7 vaccinated persons were of ages varying from 40 to 57 years. Vaccinations performed included 740 school children and 47 teachers. Contacts, 87 in number, received 1,165 visits. Additional hospital accommodation rendered necessary.

Haslingden (B).—3 cases in August, all from a common lodging house. First case, male, 22 years, a travelling scissors grinder, unvaccinated. A week later two other cases reported, a woman, 21 years, and her 5 months' old baby, both vaccinated August 25th.

Hindley.—2 cases in December, male, 45 years, female, 37 years, both vaccinated in infancy.

Ince-in-Makerfield.—5 cases in December, three males, two females, ages 5 to 12 years; one case, age 12 years, vaccinated, others unvaccinated. Source unknown.

Lytham Saint Anne's (B).—2 cases, one in January, a domestic, age 19 years, who had recently visited her home in Durham, vaccination doubtful. The second case occurred in December, a girl age 9 years, unvaccinated, who was on a visit to the town.

Morecambe (B).—1 case, in July, male, 39 years, unvaccinated. Arrived in district from a Yorkshire town eleven days prior to notification.

Nelson (B).—17 cases. First case notified November 29th, male, 26 years, unvaccinated. A definite contact of a case notified in Colne. Between this date and December 30th sixteen other cases reported, ages 6 to 56 years. Unvaccinated, 15; vaccinated in infancy, 2—ages 47 and 56 years.

Padiham.—1 case in June, female, 38 years, unvaccinated. Source undiscovered.

Rishton.—1 case in October, female, 40 years, vaccinated in infancy.

Swinton and Pendlebury.—1 case in December, male, 45 years, vaccinated in infancy. Infection supposed to have been contracted in a neighbouring town.

Trawden.—17 cases. First case notified in November, male, aged 52, patient worked in a tailor's shop in Colne, where he had been in contact with a smallpox case. In ten other cases disease contracted from one of the Colne cases. Nine of the cases had been vaccinated in infancy. Visits to 112 contacts numbered 1,647.

Tyldesley-with-Shakerley.—4 cases in December, males, ages 44 to 58 years, all vaccinated in infancy. Cases in a lodging house. Source of infection, tramps.

Wardle.—7 cases. First case notified in June from Rochdale Union Workhouse, male, 65 years, unvaccinated; probable source of infection, contact with tramps in the Institution. Next case in October, also notified from the Workhouse, male, 18 years, unvaccinated, bed-maker in a hostel in Rochdale. Three other cases notified from the Workhouse, male 43 years, vaccinated in infancy, admitted from a common lodging house in Rochdale; male, 39 years, vaccinated in infancy; and male, 33 years not vaccinated. The other two cases were children aged 7 and 10 years, unvaccinated.

Burnley (R).—3 cases. First ease in June, male, age 22 years, vaccinated. Two other cases in August, male, 19 years, re-vaccinated a fortnight previously, disease probably contracted from a case notified as chicken-pox at the same house. Remaining ease, female, 18 years, unvaccinated, visited home of a previous ease.

Preston (R).—4 cases. First ease in October, male, 59 years, vaccinated in infancy. Three other cases notified in December, male, 11 years, his sister, 13 years, both unvaccinated, and their grandmother, 59 years, vaccinated in infancy.

West Laneashire (R).—4 cases. Two in March, sister and brother, age 11 and 16 years, unvaccinated. The girl attended a school in a neighbouring town. Two other cases in April, girls, age 13 and 4 years, unvaccinated; the elder child probably contracted the disease at school through contact with the first-mentioned ease.

Scarlet Fever.—Compared with 1926, there was an increase of 182 in the scarlet fever notification but 6 fewer deaths:—

		Cases.		Deaths.
1926	...	3222	...	29
1927	...	3404	...	23

The notifications are grouped in age periods in Table 19, page 120. The mortality rate per 1,000 of the population 0·01 is the lowest recorded for the County, and the ease mortality 0·67 per cent. is also the most favourable. The latter rate in 1926 was 0·90, and 1·32 in 1925. Of the 23 deaths, 11 or 47·5 per cent. were among children under five years of age.

The notifications were most numerous in Eccles (B), 391; Lancaster (B), 157 (1 death); Stretford, 146; Radcliffe, 138 (1 death); Swinton and Pendlebury, 94 (1 death); Ashton-under-Lyne (B), 80; Waterloo-with-Seaforth, 72 (2 deaths); Farnworth, 67; Horwich, 67; Irlam, 66; and Darwen (B), 65 (2 deaths).

Of the persons attacked, fifty per cent.—against 54 per cent. last year—were removed to hospital. In 16 districts one hundred per cent. of removals took place, and over eighty per cent. in 15 other districts.

School closure took place in 2 districts.

Return cases are reported in 6 districts.

The administrative control of scarlet fever has been the subject of an enquiry by a Committee appointed by the Ministry of Health, and an exhaustive analysis of the information yielded by the enquiry is given in Report on Public Health and Medical subjects, No. 35, "Some Administrative Aspects of Scarlet Fever," 1927.

The Medical Officers of Health of Darwen (B) and Lancaster (B), report that uncomplicated cases of scarlet fever are discharged from hospital at the end of the fourth week, and where the home circumstances are suitable cases of scarlet fever are not removed to hospital.

DICK TEST.—This test for scarlet fever immunity is reported from two districts. At Little Crosby, one whole school was tested; the susceptible children were kept apart from the other scholars. The test was also applied at West Laneashire (R). The use of scarlet fever streptococcus antitoxin is reported at Middleton (B).

Diphtheria.—The notifications in 1927 of cases of diphtheria were 1,567, against 1,286 in the previous year, and the deaths, 109 against 93, an increase of 281 cases and 16 deaths.

The incidence was greatest in Widnes (B), 99 cases (2 deaths); Padiham, 92 (4 deaths); Leigh (B), 85 (8 deaths); Chadderton, 64 (3 deaths); Atherton, 57; Eccles (B), 55 (2 deaths); Radcliffe, 47 (3 deaths); Clitheroe (B), 44 (2 deaths); Middleton (B), 39 (3 deaths); Failsworth 37 (2 deaths); Farnworth, 31 (7 deaths); Litherland 31 (3 deaths); Littleborough, 31; and Whiston (R), 30 (1 death).

Cases removed to hospital numbered 1,076, or 68·6 per cent. of the total cases notified, and the ease mortality in hospital was 5·76 per cent.; of the 491 cases treated at home, 9·57 per cent. died.

From 93 districts, 3,906 swabs were sent for examination.

Schools were closed in 7 districts.

Diphtheria antitoxin.—A supply of antitoxin is available in 115 districts.

At Padiham a prosecution was instituted against a person for wilfully exposing herself whilst suffering from diphtheria.

The Medical Officer of Health, Heywood (B) writes :—"It is worthy to record three cases in one family, so unusual was the source of infection. A child at the School Clinic, aged 10, was found to be suffering from the usual form of diphtheria in the throat. Upon examination of the contacts in the house two other children were found to have the disease, but not in the throat. In the case of one of these, both eyes were involved, and in the other the ear was the organ involved. Immediate removal to hospital and serum treatment undoubtedly saved absolute blindness supervening in the one case—a result probably hitherto never yet recorded—while recovery in the other two took a normal course. The original case was the discharging ear of the one child, which, had it not been examined bacteriologically, would certainly have been a source of danger to any child or person coming in contact with him."

CARRIERS AND RETURN CASES.—In the outbreak of diphtheria at Padiham 4 "carriers" were discovered and isolated, and four of the cases were "return" cases, re-infection taking place within a period of six months from the first infection.

SCHICK TEST.—The Medical Officer of Health, Stretford, offered facilities to medical practitioners desiring to use the Schick test and immunisation against diphtheria, but no requests were made for the supply of the necessary materials. The Medical Officer applied the test in one case which proved susceptible, and carried out the immunisation by injection of toxin-antitoxin mixture. The test was also applied by the Medical Officer of Health of West Lancashire (R).

The County Council Medical Staff in three areas in the Administrative County, viz. Dalton-in-Furness (Askam), Padiham, and Whiston (R) (Bold), undertook Schick testing and active immunisation by the injection of toxin-antitoxin. In these three areas there had been extensive and severe outbreaks of diphtheria—with several deaths—which had not been controlled by the ordinary methods. The type of the disease had been very virulent, and had caused great alarm amongst the parents, some of whom sent their children out of the district for safety. In response to a definite demand that something should be done to stay the course of the disease, it was decided to offer active immunisation. Accordingly, in each district, meetings of parents were arranged, and the principles and procedure of the Schick test were explained to them, and an announcement was made that those parents who asked for it could have their children immunised, there was no compulsion of any kind. The following immunisations took place—Dalton-in-Furness, 259; Padiham, 80; Whiston (R), 134.

At Dalton-in-Furness in the Askam and Ireleth areas, 23 cases of diphtheria were reported during the first six months of 1927, and the disease had been prevalent in these parts in the preceding year. Then 259 children were immunised, and the local medical officer, reporting in April, 1928, writes :—"Although it may not be wise to rush to conclusions, the fact remains that there has only been one case of diphtheria notified since July, 1927."

The County staff arranged for the showing at Askam-in-Furness and Dalton-in-Furness, of a film on diphtheria, which shows the seriousness of the disease and advocates the adoption of the Schick test; the film was also shown at Padiham.

Enteric Fever (including Paratyphoid).—The notifications of this disease, although now few in number, again show an increase; the figures for the last three years are :—

		Cases.		Deaths.
1925	...	105	...	17
1926	...	115	...	16
1927	...	133	...	26

In the year 1899, the cases of enteric fever notified in the County area numbered 2,674, and there were 457 deaths.

The increase in the total County notifications in 1927 is due to an outbreak in Widnes (B) which caused 32 cases, all in one portion of an institution for boys. The only article on which suspicion rested was foreign currants which many of the boys in the affected portion ate in raw condition.

The enteric fever attack rate per 1,000 of the estimated population in 1927 was 0·07, compared with a rate of 1·41 per 1,000 thirty odd years ago. Sixty-seven of the County districts were entirely free from this disease during the year under report.

Of the 133 notified cases, 88, or 66·1 per cent. were removed to hospital, where the case mortality was 13·6 per cent.; of the 45 cases treated at home, the case mortality was 31·1 per cent.

Blood specimens submitted for examination numbered 429 from 49 districts.

Carriers.—At Lancaster (B) a typhoid carrier was isolated in hospital, and at Swinton and Pendlebury a carrier was tested and kept under observation. In the former borough three cases were traced to a carrier—a child who had an illness of an influenzal nature, but the true character of which was shown by subsequent examination of the excreta.

One enteric fever case at Lancaster (B) was associated with insufficiently cooked cockles gathered in Morecambe Bay, and in another instance, it is stated, the probable source of infection in a paratyphoid case was from sewage through the medium of flies. At Heywood (B) it is reported two persons attacked with enteric fever had consumed large quantities of ice cream whilst on holiday, one case had probably contracted the disease from an office caretaker, whilst another had partaken of shell fish.

Measles contributed 177 deaths, 15 more than in 1926.

The ages at death were :—

Under 1 year	35 or 19·7 per cent.
Between 1 year and 5 years ...	125 or 70·6 per cent.
Five years and upwards ...	17 or 9·6 per cent.

The fatalities were most numerous in Ince-in-Makerfield, 14; Aspull, Farnworth and Lancaster (B), 8 each; Acerington (B) and Haydock, 7 each; and Horwich, 6.

Schools were closed in 27 districts.

The disease was reported as notifiable in 7 districts, and 1,871 cases were notified.

Whooping Cough.—During 1927 there were 109 deaths from whooping cough, or 127 less than in 1926.

The ages at death were :—

Under 1 year	46 or 42·2 per cent.
Between 1 year and 5 years ...	52 or 47·7 per cent.
Five years and upwards ...	11 or 10·0 per cent.

The fatalities were most numerous in Widnes (B), 19; and Ashton under Lyne (B), 9.

School closure was resorted to in 3 districts.

Diarrhoea, &c.—The following deaths were registered in 1927 as due to diarrhoea :—under 2 years of age, 174; at all ages, 267. Last year these totals were 210 and 312.

The 174 deaths of children under 2 years of age corresponded to 6·62 per 1,000 registered births.

Acute Poliomyelitis, Acute Polio-encephalitis, Encephalitis Lethargica, Meningococcal Meningitis (Cerebro-Spinal Fever).—The reported incidence of these diseases is shown below :—

	Acute Polio- myelitis.		Acute Polio- encephal- itis.		Encephal- itis lethargica.		Meningo- coccal meningitis (cerebro- spinal fever).	
Cases notified								
1926... ..	31		2		159		9	
1927... ..	23		6		107		17	
Attack rate in 1927 per 1,000 of population ...	0·012		0·003		0·059		0·009	
Deaths—								
1926... ..	5		1		88		11	
1927... ..	3		2		89		15	
Distribution (1927)—	C.	D.	C.	D.	C.	D.	C.	D.
Urban districts ...	18	1	6	2	90	77	16	12
Rural districts ...	5	2	—	—	17	12	1	3
Seasonal incidence (1927)—								
Cases—1st quarter	6		6		36		5	
2nd „ ...	2		—		26		4	
3rd „ ...	8		—		26		4	
4th „ ...	7		—		19		4	

Encephalitis Lethargica.—There has been a decline during the last three years in the number of cases reported—from 299 in 1924 to 178 in 1925, 159 in 1926, and 107 in 1927. The table below shows the notifications, deaths, &c., since 1919, when the disease first became notifiable

Year.	Cases Notified.	Deaths.	Removals to Hospital.	Deaths in Hospital.
1919 ...	26	...	...	...
1920 ...	32	13	5	1
1921 ...	79	46	15	7
1922 ...	17	16	2	1
1923 ...	61	37	19	13
1924 ...	299	103	78	26
1925 ...	178	98	41	19
1926 ...	159	88	41	18
1927 ...	107	89	13	7

The Ministry of Health has for some time past been collecting detailed information concerning cases of this disease, and the County Public Health Department, after careful enquiries, supplied case histories of 242 patients in Lancashire attacked by encephalitis lethargica. In April, 1928, the Ministry issued a valuable report on this subject compiled by Dr. Allan C. Parsons—Report of an Inquiry into the after-histories of persons attacked by encephalitis lethargica: Public Health and Medical Subjects, Report No. 49.

Anthrax.—This disease is said to be “notifiable” in two districts—Bacup (B) and Thornton. In the former district one case was reported—malignant pustule in a felt worker.

Reports under Sanitary Officers’ Order, 1926.—“Special reports” received by the County Council during the year from local Medical Officers of Health numbered 332. Of these, 134 referred to school closures owing to the prevalence of infectious diseases, 107 to cases of encephalitis lethargica, and the others related to smallpox, scarlet fever, enteric fever, food poisoning, &c.

Hospital Isolation.—Table 18, pages 106 to 119, shows the nature of the hospital accommodation provided in, or available for, each County sanitary district, and also gives for each district—

- (a) the number of cases of infectious disease notified ;
- (b) the total deaths from such diseases ;
- (c) the number of cases removed to hospital ; and
- (d) the number of deaths in hospital.

Disinfection.—The following statement, showing the position of the County districts in regard to the provision of disinfecting apparatus, is prepared from information supplied by local Medical Officers of Health :—

Districts provided with steam apparatus, or using steam apparatus at hospitals	...	...	...	66
„ using steam apparatus belonging to other districts (mainly County or Municipal Boroughs)	...	...	...	23
„ provided with dry heat apparatus	...	...	...	1
„ without proper appliances	...	...	...	30

Houses or rooms disinfected in 1927 numbered 9,442, and 507 schools or schoolrooms were also disinfected.

The Medical Officers of Health of Denton, Leyland and Prestwich recommend the provision of efficient disinfecting apparatus.

Disinfestation.—In 21 districts, it is stated, facilities are available for the bathing of verminous persons ; disinfestation was carried out in 404 instances. The Medical Officer of Health of Middleton (B) recommends the provision of means for disinfestation.

Tuberculosis.—NOTIFIED CASES AND DEATHS.—The following table gives particulars of the *new* cases of tuberculosis reported by local Medical Officers of Health *in their Annual Reports* as having been received by them from Medical practitioners during the year 1927, and details of the deaths registered are also given :—

Age—Periods.	NEW CASES.				DEATHS.			
	Pulmonary.		Non-Pulmonary.		Pulmonary.		Non-Pulmonary.	
	M.	F.	M.	F.	M.	F.	M.	F.
Years.								
0—1	1	1	18	16	1	—	9	12
1—5	17	21	113	87	3	4	43	31
5—10	52	41	135	97	5	8	19	12
10—15	51	59	95	98	6	16	12	11
15—20	119	138	68	69	43	81	16	18
20—25	122	142	52	58	58	71	8	5
25—35	209	201	37	83	108	140	10	19
35—45	195	135	24	33	144	90	10	17
45—55	215	73	17	29	122	42	8	10
55—65	95	55	7	10	73	49	7	8
65 and upwards...	22	15	8	8	25	16	5	6
Totals	1098	881	574	588	588	517	147	149
	*1979		*1162		1105		296	

*These case notifications which, as stated above, are those reported by local Medical Officers of Health in their annual reports for the year ended 31st December, 1927, differ in number from the notifications of *new cases in the weekly returns under the Tuberculosis Regulations*; the former exceeding the latter by—pulmonary, 117 cases ; non-pulmonary, 66 cases. The difference is accounted for by the fact that all notifications reported on the weekly returns made under the Tuberculosis Regulations are carefully scrutinized in the County Public Health Department with the card index and all “*duplicate*” notifications are *excluded before* the County tuberculosis statistics given on pages 130 and 131 are prepared.

TUBERCULOSIS DEATHS AND DEATH-RATES.—PULMONARY.—A further reduction in 1927 is recorded in the County death-rate from pulmonary tuberculosis, viz., 0·61 per 1,000 of the estimated population against 0·64, 0·67, 0·68, 0·70 and 0·77 in the preceding five years. The death-rate for the year under report is the lowest recorded for the County.

Below are given the County death-rates from pulmonary tuberculosis for the years 1920-1927, and the quinquennial averages for the years 1895-1924 :—

				ADMINISTRATIVE COUNTY.				ENGLAND AND WALES.	
				Urban Death Rate.	Rural Death Rate.	County Death Rate.	Mortality per cent. of total deaths (County).	Death Rate.	Mortality per cent. of total deaths.
Average	1895-1899	...	...	1.22	1.03	1.19	—	—	—
„	1900-1904	...	...	0.96	0.77	0.94	—	—	—
„	1905-1909	...	...	0.89	0.74	0.88	—	—	—
„	1910-1914	...	...	0.86	0.67	0.84	—	—	—
„	1915-1919	...	...	1.00	0.79	0.97	—	—	—
„	1920-1924	...	...	0.74	0.59	0.72	—	—	—
Year	1920...	...	...	0.77	0.67	0.76	6.0	0.87	7.2
„	1921...	...	...	0.76	0.59	0.73	6.0	0.88	7.3
„	1922...	...	...	0.79	0.60	0.77	5.8	0.88	6.9
„	1923...	...	...	0.72	0.59	0.70	5.7	0.83	7.2
„	1924...	...	...	0.70	0.54	0.68	5.4	0.84	6.9
„	1925...	...	...	0.69	0.55	0.67	5.3	0.83	6.8
„	1926...	...	...	0.67	0.49	0.64	5.3	0.77	6.6
„	1927...	...	...	0.63	0.47	0.61	4.8	0.79	6.4

The following table shows the male and female deaths from this disease at various age periods during 1927 and the previous year :—

	At all Ages.	Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upwards.
Males—									
1926 ...	643	—	4	2	9	112	281	212	23
1927 ...	588	1	—	3	11	101	252	195	25
Females—									
1926 ...	515	2	—	3	22	174	214	85	15
1927 ...	517	—	2	2	24	152	230	91	16

The death-rate from pulmonary tuberculosis (classified by the Registrar-General as “tuberculosis of the respiratory system”) for each urban and rural district in the County area in the year 1927, is given in Table 3 on pages 14 to 19, and the 1927 district death-rates are compared with the previous year and the mean of the five years 1922-1926 on pages 163 to 178.

The highest district death-rates in 1927 were :—Dalton-in-Furness, 1.54 ; Little Crosby, 1.51 ; Whitworth, 1.28 ; Horwich, 1.15 ; Litherland, 1.07 ; Kirkham, 1.00. Extending over a period of five years, Dalton-in-Furness and Litherland had the highest average rate, namely, each 1.13 per 1,000, followed by Waterloo-with-Seaforth, 0.95 ; Lancaster (B), 0.92 ; and Sefton (R), 0.91.

NON-PULMONARY TUBERCULOSIS.—The table below analyses the deaths from non-pulmonary tuberculosis during 1927 and the previous year at various age periods :—

	At all ages.	Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upwards.
1926	286	24	32	33	54	46	59	29	9
1927	296	21	36	38	54	47	56	33	11

THE PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912-1924.—NOTIFICATIONS.—Table 21, page 130, and Table 22, page 131, analyse, both as regards the parts of the body affected and in age periods, the notifications of tuberculosis received *under the above Regulations* from district Medical Officers of Health on their Weekly Returns during the fifty-two weeks ended on the 31st December, 1927, corrected by the exclusion of duplicates.

AGE—YEARS :—			SEX.		0—1		1—5		5—10		10—15		15—20		20—25		25—35		35—45		45—55		55—65		65 & upwds.		TOTALS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
...	Col.		M.	F.	Both Sexes.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	Col.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PULMONARY—	...	Lungs only	1	...	1	14	12	26	39	38	77	41	53	94	115	128	243	110	131	241	197	193	390	185	117	302	188	71	259	85	51	136	31	995	805	1800	1	...	2	...	3	...	4	...	5	...	6	...	7	...	8	...	9	...	10	...	11	...	12	...	13	...	14	...	15	...	16	...	17	...	18	...	19	...	20	...	21	...	22	...	23	...	24	...	25	...	26	...	27	...	28	...	29	...	30	...	31	...	32	...	33	...	34	...	35	...	36	...	37	...	38	...	39	...	40	...	41	...	42	...	43	...	44	...	45	...	46	...	47	...	48	...	49	...	50	...	51	...	52	...	53	...	54	...	55	...	56	...	57	...	58	...	59	...	60	...	61	...	62	...	63	...	64	...	65	...	66	...	67	...	68	...	69	...	70	...	71	...	72	...	73	...	74	...	75	...	76	...	77	...	78	...	79	...	80	...	81	...	82	...	83	...	84	...	85	...	86	...	87	...	88	...	89	...	90	...	91	...	92	...	93	...	94	...	95	...	96	...	97	...	98	...	99	...	100	...	101	...	102	...	103	...	104	...	105	...	106	...	107	...	108	...	109	...	110	...	111	...	112	...	113	...	114	...	115	...	116	...	117	...	118	...	119	...	120	...	121	...	122	...	123	...	124	...	125	...	126	...	127	...	128	...	129	...	130	...	131	...	132	...	133	...	134	...	135	...	136	...	137	...	138	...	139	...	140	...	141	...	142	...	143	...	144	...	145	...	146	...	147	...	148	...	149	...	150	...	151	...	152	...	153	...	154	...	155	...	156	...	157	...	158	...	159	...	160	...	161	...	162	...	163	...	164	...	165	...	166	...	167	...	168	...	169	...	170	...	171	...	172	...	173	...	174	...	175	...	176	...	177	...	178	...	179	...	180	...	181	...	182	...	183	...	184	...	185	...	186	...	187	...	188	...	189	...	190	...	191	...	192	...	193	...	194	...	195	...	196	...	197	...	198	...	199	...	200	...	201	...	202	...	203	...	204	...	205	...	206	...	207	...	208	...	209	...	210	...	211	...	212	...	213	...	214	...	215	...	216	...	217	...	218	...	219	...	220	...	221	...	222	...	223	...	224	...	225	...	226	...	227	...	228	...	229	...	230	...	231	...	232	...	233	...	234	...	235	...	236	...	237	...	238	...	239	...	240	...	241	...	242	...	243	...	244	...	245	...	246	...	247	...	248	...	249	...	250	...	251	...	252	...	253	...	254	...	255	...	256	...	257	...	258	...	259	...	260	...	261	...	262	...	263	...	264	...	265	...	266	...	267	...	268	...	269	...	270	...	271	...	272	...	273	...	274	...	275	...	276	...	277	...	278	...	279	...	280	...	281	...	282	...	283	...	284	...	285	...	286	...	287	...	288	...	289	...	290	...	291	...	292	...	293	...	294	...	295	...	296	...	297	...	298	...	299	...	300	...	301	...	302	...	303	...	304	...	305	...	306	...	307	...	308	...	309	...	310	...	311	...	312	...	313	...	314	...	315	...	316	...	317	...	318	...	319	...	320	...	321	...	322	...	323	...	324	...	325	...	326	...	327	...	328	...	329	...	330	...	331	...	332	...	333	...	334	...	335	...	336	...	337	...	338	...	339	...	340	...	341	...	342	...	343	...	344	...	345	...	346	...	347	...	348	...	349	...	350	...	351	...	352	...	353	...	354	...	355	...	356	...	357	...	358	...	359	...	360	...	361	...	362	...	363	...	364	...	365	...	366	...	367	...	368	...	369	...	370	...	371	...	372	...	373	...	374	...	375	...	376	...	377	...	378	...	379	...	380	...	381	...	382	...	383	...	384	...	385	...	386	...	387	...	388	...	389	...	390	...	391	...	392	...	393	...	394	...	395	...	396	...	397	...	398	...	399	...	400	...	401	...	402	...	403	...	404	...	405	...	406	...	407	...	408	...	409	...	410	...	411	...	412	...	413	...	414	...	415	...	416	...	417	...	418	...	419	...	420	...	421	...	422	...	423	...	424	...	425	...	426	...	427	...	428	...	429	...	430	...	431	...	432	...	433	...	434	...	435	...	436	...	437	...	438	...	439	...	440	...	441	...	442	...	443	...	444	...	445	...	446	...	447	...	448	...	449	...	450	...	451	...	452	...	453	...	454	...	455	...	456	...	457	...	458	...	459	...	460	...	461	...	462	...	463	...	464	...	465	...	466	...	467	...	468	...	469	...	470	...	471	...	472	...	473	...	474	...	475	...	476	...	477	...	478	...	479	...	480	...	481	...	482	...	483	...	484	...	485	...	486	...	487	...	488	...	489	...	490	...	491	...	492	...	493	...	494	...	495	...	496	...	497	...	498	...	499	...	500	...	501	...	502	...	503	...	504	...	505	...	506	...	507	...	508	...	509	...	510	...	511	...	512	...	513	...	514	...	515	...	516	...	517	...	518	...	519	...	520	...	521	...	522	...	523	...	524	...	525	...	526	...	527	...	528	...	529	...	530	...	531	...	532	...	533	...	534	...	535	...	536	...	537	...	538	...	539	...	540	...	541	...	542	...	543	...	544	...	545	...	546	...	547	...	548	...	549	...	550	...	551	...	552	...	553	...	554	...	555	...	556	...	557	...	558	...	559	...	560	...	561	...	562	...	563	...	564	...	565	...	566	...	567	...	568	...	569	...	570	...	571	...	572	...	573	...	574	...	575	...	576	...	577	...	578	...	579	...	580	...	581	...	582	...	583	...	584	...	585	...	586	...	587	...	588	...	589	...	590	...	591	...	592	...	593	...	594	...	595	...	596	...	597	...	598	...	599	...	600	...	601	...	602	...	603	...	604	...	605	...	606	...	607	...	608	...	609	...	610	...	611	...	612	...	613	...	614	...	615	...	616	...	617	...	618	...	619	...	620	...	621	...	622	...	623	...	624	...	625	...	626	...	627	...	628	...	629	...	630	...	631	...	632	...	633	...	634	...	635	...	636	...	637	...	638	...	639	...	640	...	641	...	642	...	643	...	644	...	645	...	646	...	647	...	648	...	649	...	650	...	651	...	652	...	653	...	654	...	655	...	656	...	657	...	658	...	659	...	660	...	661	...	662	...	663	...	664	...	665	...	666	...	667	...	668	...	669	...	670	...	671	...	672	...	673	...	674	...	675	...	676	...	677	...	678	...	679	...	680	...	681	...	682	...	683	...	684	...	685	...	686	...	687	...	688	...	689	...	690	...	691	...	692	...	693	...	694	...	695	...	696	...	697	...	698	...	699	...	700	...	701	...	702	...	703	...	704	...	705	...	706	...	707	...	708	...	709	...	710	...	711	...	712	...	713	...	714	...	715	...	716	...	717	...	718	...	719	...	720	...	721	...	722	...	723	...	724	...	725	...	726	...	727	...	728	...	729	...	730	...	731	...	732	...	733	...	734	...	735	...	736	...	737	...	738	...	739	...	740	...	741	...	742	...	743	...	744	...	745	...	746	...	747	...	748	...	749	...	750	...	751	...	752	...	753	...	754	...	755	...	756	...	757	...	758	...	759	...	760	...	761	...	762	...	763	...	764	...	765	...	766	...	767	...	768	...	769	...	770	...	771	...	772	...	773	...	774	...	775	...	776	...	777	...	778	...	779	...	780	...	781	...	782	...	783	...	784	...	785	...	786	...	787	...	788	...	789	...	790	...	791	...	792	...	793	...	794	...	795	...	796	...	797	...	798	...	799	...	800	...	801	...	802	...	803	...	804	...	805	...	806	...	807	...	808	...	809	...	810	...	811	...	812	...	813	...	814	...	815	...	816	...	817	...	818	...	819	...	820	...	821	...	822	...	823	...	824	...	825	...	826	...	827	...	828	...	829	...	830	...	831	...	832	...	833	...	834	...	835	...	836	...	837	...	838	...	839	...	840	...	841	...	842	...	843	...	844	...	845	...	846	...	847	...	848	...	849	...	850	...	851	...	852	...	853	...	854	...	855	...	856	...	857	...	858	...	859	...	860	...	861	...	862	...	863	...	864	...	865	...	866	...	867	...	868	...	869	...	870	...	871	...	872	...	873	...	874	...	875	...	876	...	877	...	878	...	879	...	880	...	881	...	882	...	883	...	884	...	885	...	886	...	887	...	888	...	889	...	890	...	891	...	892	...	893	...	894	...	895	...	896	...	897	...	898	...	899	...	900	...	901	...	902	...	903	...	904	...	905	...	906	...	907	...	908	...	909	...	910	

* See footnote on Table 21.

The following table gives the male and female notified cases of pulmonary and non-pulmonary tuberculosis 1913-1927, at certain specified age groups :—

PULMONARY TUBERCULOSIS															NON-PULMONARY TUBERCULOSIS.														
Years {	0 to 1	1 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 and up	Total	Total M.&F.	0 to 1	1 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 and up	Total.	Total M.&F.			
1913 ... M. { (11 months)	1 6	24 28	97 100	70 104	129 158	131 188	311 296	292 201	228 103	114 65	29 25	1426 1274	2700	29 28	128 118	177 134	137 132	98 118	58 86	71 80	48 47	27 29	18 19	3 7	794 798	1592			
1914 ... M. { F. {	6 3	40 32	80 115	83 107	112 140	172 181	329 336	315 225	240 107	107 47	23 20	1507 1313	2820	43 37	111 88	131 98	95 89	77 77	36 44	47 58	23 27	20 12	14 6	3 4	600 540	1140			
1915 ... M. { F. {	5 5	47 27	97 96	79 111	127 152	138 191	305 383	303 239	235 100	117 60	34 21	1487 1385	2872	39 26	109 88	113 107	93 88	61 84	46 53	50 61	29 33	14 15	5 7	3 4	562 566	1128			
1916 ... M. { F. {	1 2	31 24	71 81	77 96	121 165	157 186	331 345	296 220	190 98	96 52	36 13	1407 1282	2689	20 8	127 68	135 122	99 114	65 85	42 46	47 65	34 41	12 19	13 11	5 2	599 581	1180			
1917 ... M. { F. {	4 2	20 22	77 90	62 100	113 129	104 155	262 296	268 185	190 107	90 50	30 19	1220 1155	2375	21 7	116 79	109 97	105 98	61 89	23 59	42 49	30 25	8 23	9 6	1 5	525 537	1062			
1918 ... M. { F. {	3 1	35 24	55 69	59 74	140 139	108 166	300 297	317 207	232 117	98 52	28 13	1375 1159	2534	14 10	75 75	103 84	65 92	60 80	19 46	29 46	16 29	14 9	7 6	2 4	404 481	885			
1919 ... M. { F. {	2 5	22 14	53 54	55 80	94 126	107 161	238 261	212 184	165 99	91 41	17 24	1056 1049	2105	13 10	50 59	97 98	80 76	53 61	26 43	31 41	22 29	19 11	12 7	4 5	407 440	847			
1920 ... M. { F. {	2 2	24 20	56 53	63 71	94 115	120 122	281 264	249 147	160 84	90 36	14 17	1153 931	2084	31 12	62 66	107 86	108 78	68 62	26 46	35 52	23 34	16 23	11 16	5 1	492 476	968			
1921 ... M. { F. {	1 ...	17 12	43 53	47 77	94 132	133 160	222 255	225 156	162 82	84 50	19 20	1047 997	2044	12 15	60 62	110 89	84 81	53 65	32 41	41 53	23 15	17 21	6 9	4 6	442 457	899			
1922 ... M. { F. {	3 4	16 15	38 45	48 58	84 136	122 136	228 203	191 147	149 61	99 42	27 25	1005 872	1877	18 13	101 77	113 81	81 96	56 61	39 45	39 52	22 25	13 14	7 7	3 5	492 476	968			
1923 ... M. { F. {	2 1	10 14	43 47	44 63	83 115	133 151	238 256	211 152	149 84	96 49	13 16	1022 948	1970	18 14	116 105	139 113	107 108	79 73	35 61	46 64	23 32	15 30	15 14	7 5	600 619	1219			
1924 ... M. { F. {	1 4	29 14	40 31	57 59	105 144	113 142	212 226	206 175	201 94	97 49	18 12	1079 950	2029	19 6	125 104	99 88	94 99	98 84	36 56	45 72	28 31	17 18	12 11	3 13	576 582	1158			
1925 ... M. { F. {	... 3	24 14	39 31	43 48	85 150	117 158	220 204	208 142	194 89	75 34	25 26	1030 899	1929	18 10	114 94	113 90	77 95	60 82	38 43	54 60	27 23	16 18	12 11	5 6	534 542	1076			
1926 ... M. { F. {	1 2	11 13	35 47	45 49	92 116	113 171	215 229	205 123	159 72	114 40	24 13	1014 875	1889	11 19	93 85	103 103	77 54	79 68	31 58	36 54	33 35	17 17	7 6	3 5	490 504	994			
1927 ... M. { F. {	1 ...	14 15	50 41	44 56	117 132	112 133	204 197	194 118	192 74	86 51	20 11	1034 828	*1862	13 16	110 85	138 96	90 88	68 62	41 49	41 81	19 35	13 20	5 11	9 6	547 549	*1096			

* See footnote * on Table 21 page 130.

Since February 1st, 1913, tuberculosis, both "pulmonary" and "other forms," has been compulsorily notifiable; previous to that date it was incompletely notifiable. The following table shows that the case notification rate for the Administrative County has declined, as regards "pulmonary" tuberculosis, from 1.54 per 1,000 of the population in the year 1913 to 1.03 in 1927, and as regards "other forms" of tuberculosis from 0.90 per 1,000 to 0.60. For purposes of comparison the corresponding rates for England and Wales are given in the table :—

Year.	Administrative County of Lancaster.				England and Wales.§	
	Pulmonary Tuberculosis.		Other forms of Tuberculosis.		Pulmonary Tuberculosis.	Other forms of Tuberculosis.
	Cases notified.	Case rate per 1,000 of population.	Cases notified.	Case rate per 1,000 of population.	Case rate per 1,000 of population.	Case rate per 1,000 of population.
1913 (11 months)	2700	1.54	1592	0.90	2.20 (whole year)	0.99
1914	2820	1.61	1140	0.65	2.05	0.63
1915	2872	1.72	1128	0.67	1.93	0.63
Average 3 years, 1913-1915	...	1.62	...	0.74	2.06	0.75
1916	2689	1.52	1180	0.66	1.96	0.65
1917	2375	1.35	1062	0.60	2.01	0.61
1918	2534	1.47	885	0.51	2.10	0.55
1919	2105	1.21	847	0.48	1.72	0.46
1920	2084	1.23	968	0.55	1.55	0.41
Average 5 years, 1916-1920	...	1.35	...	0.56	1.86	0.53
1921	2044	1.16	899	0.51	1.48	0.40
1922	1877	1.06	968	0.54	1.40	0.41
1923	1970	1.11	1219	0.68	1.54‡	0.52‡
1924*	2029	1.13	1158	0.64	1.56	0.52
1925	1929	1.07	1076	0.60	1.56	0.53
Average 5 years, 1921-1925	...	1.10	...	0.59	1.50	0.47
1926	1889	1.05	994	0.55	1.52	0.51
1927	†1862	1.03	†1096	0.60	1.48	0.50

The totals given for 1927 exclude 226 duplicate notifications; 1,297 notifications were received on Form C (admissions to Institutions), and 1,160 on Form D (discharges from Institutions).

* 53 weeks. § Figures extracted from Report of Chief Medical Officer, Ministry of Health.

‡ From 1923 onwards figures include "fresh cases" ascertained otherwise than by formal notification.

† Following on a suggestion made by the Chief Medical Officer of the Ministry of Health, any case notified as tuberculosis since the year 1925, and found, as the result of observation and examination by the Tuberculosis Officer, to have been wrongly notified, is removed from the Register and the notification cancelled, the consent of the notifying medical practitioner to the withdrawal of the notification having been previously obtained. Of the cases notified in 1927, 119 such withdrawals (68 pulmonary and 51 non-pulmonary) have so far (to 30th June, 1928), taken place. (See footnote on Table 21). The totals given above, and in Tables 21 and 22 are the gross notifications.

For reference, and for the information of the County Tuberculosis Department, a card index of every case notified, and also a record of the deaths from tuberculosis, are kept up to date in the County Public Health Department, and all notifications received by the County Medical Officer of Health are forwarded each week to the County Tuberculosis Department.

THE PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1924.—From the quarterly returns supplied by the local Medical Officers of Health under these Regulations, the number of cases of tuberculosis on the local registers on the 31st December, 1927, was as under :—

	Males.	Females.	Total.
Pulmonary tuberculosis ...	4,098	3,485	7,583
Non-pulmonary tuberculosis	2,676	2,822	5,498
Total	6,774	6,307	13,081

THE PUBLIC HEALTH (PREVENTION OF TUBERCULOSIS) REGULATIONS, 1925.—Under these Regulations in one district an employee was prohibited from handling milk or utensils.

COUNTY TUBERCULOSIS SCHEME.—The administration of the County Council's scheme for the diagnosis and treatment of tuberculosis is in the hands of the County Tuberculosis Committee, and full details of every section of the work are given in Dr. Cox's Annual Report.

PUBLIC HEALTH ACT, 1925.—Apparently no action was taken in the County districts during 1927 under Section 62 of this Act as regards applications for orders for compulsory removal to hospital. Under Section 67, in about 20 districts lectures were given on questions of health or disease; several local authorities arranged "Health Weeks," at some of which the County authority assisted by sending a lecturer, providing health films, &c.

The Public Health (Venereal Diseases) Regulations, 1916.—COUNTY COUNCIL SCHEME. The County Council scheme for the diagnosis and treatment of venereal diseases which was put into operation in 1916, has been fully maintained during the year under report.

The details of the County scheme were set out in the report for 1925.

LABORATORY FACILITIES.—The examinations of specimens from cases or suspected cases are carried out, by arrangement, at the following laboratories :—

MANCHESTER ... The University of Manchester, Public Health Laboratory, York Place, Oxford Road (Prof. Maitland, Director).

LIVERPOOL ... The University of Liverpool, City Laboratories and School of Hygiene, Mount Pleasant (Prof. Beattie).

BURNLEY ... County Borough of Burnley Public Health Laboratory, Victoria Hospital.

The outfits supplied to medical practitioners during 1927 were as follows :—

Wassermann test.	Detection of Spirochæta pallida.	Detection of Gonococci.	Total.
1105	1	103	1209

TREATMENT CENTRES.—The County Council have arrangements with the following 25 Institutions for the treatment of patients residing in the county area :—

Treatment Centre.	Days and Hours of Out-Patient Clinic.	
	MALES.	FEMALES.
ASHTON-UNDER-LYNE District Infirmery, Darnton Road <i>Medical Officers :—</i> James R. Robertson Margaret Gorman	Wednesday, 3—4 p.m. Thursday, 6—7.30 p.m. For Gonorrhœa cases, Monday to Friday, 6.30—7.30 p.m.	Monday, 6—7 p.m. Wednesday, 3—4 p.m. Irrigation :— Monday to Friday, 6.30—7.30 p.m.
BARROW-IN-FURNESS North Lonsdale Hospital, School Street <i>Medical Officers :—</i> F. E. Daniel J. Gray	Wednesday, 10.30 a.m. Thursday, 7.30 p.m. Saturday, 10.30 a.m. Daily 6—7 p.m. <i>N.B.</i> —Apprehensive cases present themselves at the Clinics.	Tuesday, 7.30 p.m. Friday, 10.30 a.m. Irrigation :— Daily, by arrangement.
BLACKBURN and East Lancashire Royal Infirmery <i>Medical Officers :—</i> W. Cran Duthie Ella MacKenzie	Tuesday, 5 p.m. Friday, 7.30 p.m. <i>N.B.</i> —New patients should present themselves 15 minutes before above hours.	Monday, 5.30 p.m. Thursday, 6 p.m.
BLACKPOOL Victoria Hospital, Whitegate Drive <i>Medical Officer :—</i> B. Bartlett	Monday and Thursday, 4.45—6.30 p.m. Wednesday and Saturday, 11 a.m.—12.30 p.m.	Tuesday, 4.45—6.30 p.m. Friday, 11 a.m.—12.30 p.m.
BOLTON Public Health Department Clinic, Howell Croft North <i>Medical Officers :—</i> C. W. Paget Moffatt John McKeague Mary E. Boullen A. G. Morrison	Monday, Tuesday, and Wednesday, 7 p.m. Monday and Wednesday, 10 a.m. Friday, 10 a.m. and 7 p.m. Cases unable to attend at above times can be seen any morning between 9 a.m. and 12 noon.	Thursday, 7 p.m. Saturday, 11 a.m. Irrigation :— Tuesday, 10 a.m. and Wednesday, Thursday and Friday, 2.30 p.m.
BOOTLE Borough Hospital, Derby Road <i>Medical Officer :—</i> W. L. Webb	Monday, 5 p.m. Wednesday, 6.30 p.m. Friday, 6.30 p.m.	Wednesday, 12 noon. Thursday, 5.30 p.m.
BURNLEY Victoria Hospital <i>Medical Officer :—</i> Arthur Henry Priestley	Monday, 10—11 a.m. and 5.30—6.30 p.m. Thursday, 5.30—6.30 p.m. New cases seen any day.	Friday, 11 a.m.—12 noon and 5.30—6.30 p.m.

Treatment Centre.

Days and Hours of Out-Patient Clinic.

BURY Dispensary, The Wylde
Medical Officer :—
 John Holker

LIVERPOOL Royal Infirmary, Pembroke Place
Medical Officer :—
 R. Stopford Taylor

LIVERPOOL David Lewis Northern Hospital (entrance in Leeds Street)
Medical Officers :—
 Arthur A. Fitch
 William L. Webb

LIVERPOOL Royal Southern Hospital, Caryl Street
Medical Officers :—
 Arthur A. Fitch
 G. Vincent Hall
 Constance M. Tinkler

LIVERPOOL Stanley Hospital, Stanley Road, Kirkdale
Medical Officers :—
 B. M. Bennett
 Ruth Nieholson

MANCHESTER Royal Infirmary, Nelson Street, Oxford Road
Medical Officers :—
 Alex. Wilson
 Wm. Dyson
 John Holker

MANCHESTER St. Luke's Hospital, Duke Street, Liverpool Road
Medical Officers :—
 Alexander Wilson
 W. J. S. Reid
 Eliz. C. Byrd

MANCHESTER AND SALFORD Hospital for Skin Diseases, Quay Street, Deansgate (Syphilis and Skin Diseases only treated at this Hospital)
Medical Officers :—
 G. H. Laneashire
 L. Savatard
 W. Dyson
 R. Gibson

MANCHESTER St. Mary's Hospitals, (Whitworth Street West Branch) Oxford Street
Medical Officers :—
 F. Hamilton Laeey
 W. R. Addis

MANCHESTER Ancoats Hospital, Mill Street, Ancoats
Medical Officers :—
 W. J. S. Reid
 E. D. McCrea
 L. Anderson Wilson
 Gordon Whitehead
 S. E. Critchley

MALES.
 Friday, 6.30 p.m.

FEMALES.
 Tuesday, 6.30 p.m.

New Patients :—
 Monday, 5.30 p.m.
 Tuesday, 1 p.m.
 Wednesday, 5.30 p.m.
 Friday, 7 p.m.
Continuation Treatment :—
 Daily (except Sunday), 9 a.m.—6.30 p.m.
 Tuesday, 6 p.m.
 Thursday, 12 noon.
 Daily (except Sunday), 10—11 a.m.

New Patients :—
 Monday and Friday, 5—6 p.m.
Continuation Treatment :—
 Tuesday, Wednesday, Thursday, and Saturday, 6—8 p.m.
 Wednesday, 5—6 p.m.

New Patients :—
 Tuesday, 4.30 p.m.
 Thursday, 4.30 p.m.
 Saturday, 1 p.m.
Continuation Treatment :—
 Daily, 5 p.m. (except Friday and Sunday).
 Saturday, 1 p.m.
 Friday, 5 p.m.
 Daily, 5 p.m. (except Sunday).
 Saturday, 1 p.m.

New Patients :—
 Monday and Thursday, 5—6 p.m.
Continuation Treatment :—
 Daily, 6—7 p.m. (except Tuesday, Saturday, and Sunday).
 Tuesday, 5—6 p.m.
 Saturday, 12 noon.
 Daily, 11 a.m. (except Sunday).

Syphilis :—
 Thursday, 6—8 p.m.
 Thursday, 11 a.m. (also for children).
Diseases of the Genito-Urinary Organs :—
 Wednesday, 6—8 p.m.
 Wednesday, 11 a.m. (also for children).
Syphilis and Diseases of the Genito-Urinary Organs :—
 Monday, 6 p.m.

Monday, Tuesday, Thursday, Friday, 5—7 p.m.
 Wednesday, 5—7 p.m. (women only).
 Friday, 11 a.m.—1 p.m.

Irrigation and Intermediate Treatment :— Daily (Sunday excepted), 10 a.m.—7 p.m. Saturdays, 10 a.m.—1 p.m.

Daily (Sunday excepted)
 9—10 a.m. | 9—11 a.m.
 Children, 9—11 a.m.

Monday, Wednesday, Thursday, and Friday, 9—10.30 a.m.
 Thursday, 5—7 p.m.
 Tuesday, 7—8 p.m.

Wednesday, 5.30—7 p.m.
 Saturday, 5.30—7 p.m.
 Wednesday, 11.30 a.m.—1 p.m.

Treatment Centre.

Days and Hours of Out-Patient Clinic.

	MALES.	FEMALES.
OLDHAM Royal Infirmary, Union Street West <i>Medical Officers :—</i> C. B. Gerrard E. B. Brown R. I. Poston	Syphilis :— Tuesday, 7.30 p.m. Gonorrhœa :— Wednesday, 7.30 p.m. Irrigation :— Monday to Friday 9.30 a.m.—8.30 p.m. Saturday, 9.30 a.m.—12.30 p.m.	Monday, 7.30 p.m. Tues., Wed., Thurs. and Fri., 3 p.m.
PRESTON Royal Infirmary, Deepdale Road <i>Medical Officer :—</i> W. H. Pimblett	Wednesday, 4.30—7.30 p.m. Friday, 4.30—7 p.m. Intermediate Treatment :— Daily, 8.30—9.30 a.m. and 5—7 p.m.	Tuesday, 4.30—7 p.m. Treatment :— Tuesday, 4.30—7 p.m. Saturday, 2—4 p.m.
ROCHDALE Infirmary, Redcross Street <i>Medical Officers :—</i> J. C. Robertson J. M. Valentine	Intermediate Treatment :— Monday, 6.30 p.m. Wednesday, 12 noon. Friday, 6.30 p.m. Saturday, 5.30 p.m. Clinic :— Tuesday, 3.45—5.45 p.m. Thursday, 5—7 p.m.	Monday Thursday Friday Saturday } 3 p.m. Tuesday, 9.30—11.30 a.m. Wednesday, 5.30—7.30 p.m.
SALFORD Municipal Clinic, 153—155, Regent Road <i>Medical Officer :—</i> E. T. Burke	Sunday, 9.30 a.m.—12.30 p.m., 3.30—6.30 p.m. Monday to Friday, 8.30 a.m.—8.30 p.m. Saturday, 8.30 a.m.—12.30 p.m., 7—8.30 p.m.	
SOUTHPORT Infirmary, Curzon Road <i>Medical Officer :—</i> H. Bardsley	Monday and Thursday, 5—8 p.m. Daily Treatment :— Monday, Tuesday, Wednesday, Thursday and Friday, 8—9.30 a.m. and 6—7.30 p.m. Saturday, 6—7.30 p.m.	Tuesday, 2—5 p.m. Monday, Tuesday, Wednesday, Thursday and Friday, 2 p.m. Saturday, 10 a.m.—12 noon.
ST. HELENS Dispensary, 18, Clough-ton Street <i>Medical Officers :—</i> Frank Hauxwell Donald E. Morley Helen Standring	Monday, 6—7 p.m. Disinfection and Irrigation :— Monday to Friday, 9.30 a.m.—5 p.m. Saturday, 9.30 a.m.—12 noon.	Wednesday, 5.30—7 p.m. (also for children).
WARRINGTON Infirmary and Dispensary, Kendrick Street. Outpatient Clinic—Beaumont Street entrance <i>Medical Officer—</i> E. Pigott	Tuesday, 4 p.m. Friday, 5 p.m.	Tuesday, 5 p.m. Friday, 6 p.m.
WIGAN Royal Albert Edward Infirmary, Wigan Lane <i>Medical Officer—</i> H. Bardsley.		Tuesday, 4—6 p.m. Wednesday, 2.30—4.30 p.m. Friday, 4—6 p.m.

WORK CARRIED OUT AT THE TREATMENT CENTRES DURING THE YEAR 1927.—The following table giving the attendances during the year 1927 is compiled from the Annual Returns, Form V.D.(R), of the Medical Officers of Treatment Centres. The table also gives the number of attendances at the Centres for the five years 1922–1926.

	Number of County Residents attending for the <i>first</i> time, and found to be suffering from :—				Total Number of Attendances of County Residents at Out-patient Clinic.	Aggregate Number of In-patient days.	Number of Doses of Arseno-benzene Compounds.
	Syphilis.	Soft Chanere	Gonorrhœa.	Conditions other than Venereal.			
Year 1922	701	17	573	399	29420	1490	8501
Year 1923	598	9	545	418	29661	1742	6931
Year 1924	475	17	607	405	25344	1321	6051
Year 1925	501	16	615	426	29001	2067	5563
Year 1926	494	8	625	445	33297	980	6228
Year 1927 :—							
Ashton-under-Lyne District Infirmary	30	—	26	26	2077	28	470
Barrow-in-Furness North Lonsdale Hospital	3	—	7	3	177	79	80
Blackburn and East Lancashire Royal Infirmary	38	—	70	72	4400	206	749
Blackpool Victoria Hospital	36	5	75	27	2359	32	310
Bolton Public Health Department Clinic	45	—	84	44	3043	—	520
Bootle Borough Hospital	7	4	49	16	288	111	194
Burnley Victoria Hospital	28	—	48	15	1797	19	518
Bury Tuberculosis Dispensary Clinic	21	—	47	4	801	—	138
Liverpool Royal Infirmary	13	—	19	18	788	—	200
Liverpool David Lewis Northern Hospital	11	—	6	1	405	—	190
Liverpool Royal Southern Hospital	2	1	5	1	179	70	26
Liverpool Stanley Hospital	6	—	14	7	591	25	88
Manchester Ancoats Hospital	35	—	28	42	1030	9	169
Manchester Royal Infirmary	15	—	14	4	677	—	74
Manchester St. Luke's Hospital	14	4	40	18	963	18	114
Manchester and Salford Hospital for Skin Diseases	44	—	4	29	1339	—	159
Manchester St. Mary's Hospitals	2	—	9	25	523	—	101
Oldham Royal Infirmary	9	—	20	14	990	19	137
Preston Royal Infirmary	49	—	79	48	4043	—	1466
Rochdale Infirmary	13	—	18	8	1108	—	214
Salford Royal Hospital	20	—	38	16	3200	123	256
St. Helens Corporation Hospital	2	1	5	3	134	—	10
Southport Royal Infirmary	3	—	11	6	498	124	45
Warrington Infirmary	1	—	18	3	782	6	39
Wigan Royal Albert Edward Infirmary	26	1	49	36	3093	72	433
Other Institutions treating County residents	2	1	3	—	176	24	2
Total for year 1927	474	17	786	486	35461	965	6702

Compared with the previous year, there was a slight reduction in the number of new cases of syphilis attending the Clinics for the *first* time, but an increase in the number of gonorrhœa patients. The total attendances show a fairly substantial increase.

Railway Vouchers.—During the year, 299 railway vouchers were provided by the County Public Health Department to 18 necessitous persons to enable them to attend treatment centres. The expenditure on this item during 1927 was £22 2s. 5d.

ARSENOBENZENE COMPOUNDS.—Under the arrangement for the supply of arsenobenzene compounds to medical practitioners “approved” for this purpose the following were supplied during 1927 :—

Total No. of medical practitioners “approved” for supply of these preparations.	No. of doses of Arsenobenzene Compounds supplied to medical practitioners in 1927.						
	Novarsenobillon.	Kharsivan	Neokharsivan.	Novarsenobenzol.	Sulfarsenol.	Stabilarsan.	Novarsan.
162	496	7	111	12	79	48	2
							755

EDUCATIONAL AND PROPAGANDA WORK.—The statement below shows the approximate number of persons who attended the lectures, film shewings, &c., arranged in 1927 by the County Public Health Department :—

Lectures and Addresses by Organizing Lecturer, &c.			Medical Lectures.			Lectures to Teachers.	Lantern Lectures.	Film Lectures.	Child Welfare Centres.	Nurses, Health Visitors & Midwives.	School Children Special Films.	Total.
Men & Boys.	Women & Girls.	Mixed.	Men.	Women.	Mixed.							
—	2115	1707	250	—	1500	—	300	5750	490	70	4170	16352

The lectures given during 1927, in addition to the open meetings, included addresses to organizations such as women’s institutes, mothers’ unions, girls’ friendly societies, trades and labour councils, co-operative guilds, men’s clubs, &c., and special lectures were given to nurses, health visitors and midwives. In a few instances the co-operation of employers of labour was enlisted and dinner-time addresses were given to the workpeople. A number of short lectures were given to mothers at the County Child Welfare Centres. The attendances justified the trouble and expense incurred in arranging the lectures.

It is now generally recognised that a lecture is more likely to be successful if other aspects of public health work are introduced, and personal hygiene topics were included, such as care of the teeth, value of fresh air, food, clean milk, &c.

MATERNITY AND CHILD WELFARE.

MIDWIVES ACTS, 1902–1926.

The County Council is the “Local Supervising Authority” responsible for the administration of the Midwives Acts in the Administrative County area.

ROLL OF MIDWIVES.—The number of certified midwives on the County Register on the 31st December, 1927, was 768. At the end of the year 1926, the number was 723.

During the year under report, 99 newly-certified midwives gave notice of their intention to practise in the County area, and 28 who had previously “ceased” re-commenced to act. Eighty-two midwives had their names removed from the County Register for the following reasons :—one struck off the Roll for negligence and misconduct, 10 died, 23 left the County area, and 48 ceased to practise.

“Trained” midwives now number 650, or 85 per cent. of the total on the County register; “bonâ-fides” or “untrained” 118 or 15 per cent. Twenty-one years ago the untrained midwives represented 83 per cent. of the whole.

The period of training required before a woman can sit for the Central Midwives’ Board Examination is now twelve months (with certain exceptions); whilst this may not be wholly adequate, it means that the newly-qualified woman is much better equipped for her work than formerly, when the training period extended over only six months. New obligations are placed on her by every revision of the Rules, new records have to be kept, and additional returns to the Local Supervising Authority have to be made. In many of the County areas the midwifery service is adequate, but in other districts, small and sparsely populated, satisfactory service is not available. The problem to some extent is an economic one. A tabular statement on page 140 shows the extent of the work of the County midwives.

RECORDS FROM MIDWIVES.—The following statement shows the number of copy medical help records received by the County Public Health Department from certified midwives during 1927 :—

MEDICAL HELP RECORDS.

(1) In all cases in which a woman during pregnancy, labour, or lying-in, appears to be dying or is dead —

(2) Pregnancy—

[illegible]

(3) Labour—

[illegible]

(4) Lying-in—

[illegible]

(5) The Child—

[illegible]

Medical Help Records.—The 5,113 copy medical help records represented 37 per cent. of the total cases attended by midwives during 1927, compared with records in 34 per cent. of the cases in the years 1926 and 1925, and 27 per cent. in 1924. Sixteen years ago in not more than 10 per cent. of the cases attended by midwives was medical aid sought, and in 1907 the percentage was only 4.

PAYMENT OF DOCTORS' FEES.—EMERGENCY CASES.—Under the Midwives Aet, 1918, the number of accounts received in 1927 from medical practitioners called in by certified midwives in "cases of emergency" as defined by the Central Midwives Board's Rules was 1,886, the amount involved being £2,935. The total number of occasions on which midwives summoned doctors was 5,113. In the year 1926 doctors' accounts numbered 1,737 out of 4,991 calls.

The total payments to doctors under this Act to the 31st December, 1927, amounted to £12,154 4s. 0d. ; by the operation of the “ scale of family income ” adopted by the County Public Health Department, £10,369 15s. 1d. of the total amount had to be borne by the County Council ; of the remaining £1,784 8s. 11d. a sum of £1,672 15s. 11d. or 93 per cent. has, up to the present date (August, 1928) been recovered by the County Public Health Department.

NO RECOVERY IN EYE CASES.—As suggested by the Ministry of Health in Circular 617a, the County Council, on the recommendation of the Midwives Act Committee, passed a resolution authorising the Public Health Department to refrain from exercising the power of recovery of the fees paid by the County Council to medical practitioners called in by certified midwives in cases of inflammation of, or discharge from the eyes of infants. The amount involved in 1927 in respect of 87 cases was £94.

STILL-BIRTHS.—The following statement compares 1927 with the preceding 2 years, giving the percentage of still-births reported by midwives practising in the County area to the total births attended by them :—

Year.	No. of Births attended by Certified Midwives practising in County area.	No. of Still-births reported by Certified Midwives.	Percentage of Still-births reported by Midwives to total births attended by them.
1925	14,085	350	2.48
1926	14,713	308	2.09
1927	13,546	384	2.83

Under the Births and Deaths Registration Act, 1927, from the 1st July, 1927, every still-birth must be registered in like manner as the birth of a living child. A circular setting forth the requirements of the new Act in this respect was forwarded to every certified midwife on the County register.

SUMMARY OF RECORDS FROM MIDWIVES.—The following table gives the number of Records, &c., received from the certified midwives practising in the County during the year 1927, and the preceding two years :—

	1925.	1926.	1927.
Records of sending for medical help ...	4763	4991	5113
Still-births ... Males ... Females ...	190 } 350 160 }	167 } 308 141 }	221 } 384 163 }
Deaths of Mother or Child ... Mother Child ...	41 } 283 242 }	37 } 256 219 }	48 } 280 232 }
Substitution of artificial for breast feeding ...	153	118	131
Liability to be a source of infection ...	98	117	126
Laying-out the dead ...	44	40	57

NUMBER OF CONFINEMENTS ATTENDED BY CERTIFIED MIDWIVES.—The following table shows the number of births attended by midwives in the County area during the year 1927, and the percentage to total births, compared with 1926 and 1925 :—

Year.	Total Births in County area.	No. of Births attended by Certified Midwives.	Percentage of Births attended by Midwives to total Births.
1925	28,394	14,085	49.6
1926	27,944	14,713	52.6
1927	26,263	13,546	51.5

*In the year 1927, 10 midwives attended over 100 cases.
 24 „ between 75 & 100 „
 46 „ „ 50 & 75 „
 112 „ „ 25 & 50 „
 239 „ „ 5 & 25 „
 161 „ less than 5 cases.

*Midwives on the County Register as “practising” but who did not actually attend any cases during the year are excluded, and the figures also exclude the births attended by midwives residing in County Boroughs who take only an occasional case in the County area.

PUERPERAL FEVER AND PUERPERAL PYREXIA.—The Public Health (Puerperal Fever and Puerperal Pyrexia) Regulations, 1926, came into operation on the 1st October, 1926, and amending Regulations on the 1st July, 1928.

Notifications.—Puerperal Fever.—Puerperal Pyrexia.—The table below shows the number of notifications received under the Regulations during 1927, and for comparison gives the 1926 figures :—

	Puerperal Fever.			Puerperal Pyrexia.		
	Cases.	Deaths.	Mortality rate per cent.	Cases.	Deaths.	Mortality rate per cent.
Cases attended at childbirth solely by certified midwives... ..	17	1	5·8	77	3	3·8
Cases in which midwives acted as nurses under the supervision of medical practitioners ...	22	4	18·1	73	9	12·3
Cases in which certified midwives were not in attendance ...	29	4	13·7	47	2	4·2
Total 1927	68	9	13·2	197	14	7·1
Total 1926	106	31	28·9	†58	†2	3·5

† Three months only (Oct.—Dec.).

The deaths from puerperal fever and puerperal pyrexia reported in connection with the work under the Midwives Acts, do not correspond with the deaths classified by the Registrar-General in his annual statistics under the heading “puerperal sepsis,” the discrepancy probably being due to the inclusion under the latter head of deaths from certain conditions of the puerperal state which have not hitherto been reported under the Notification Act.

Special Assistance.—Under the Regulations the County Public Health Department has prepared a scheme, which is now before the Ministry of Health, under which provision is made for the special treatment of women suffering from puerperal fever and puerperal pyrexia; for consultation with an obstetric specialist; for skilled nursing; for bacteriological investigation; or for institutional treatment.

This special assistance is provided by the authority which is the “Child Welfare Authority” of the locality.

In the area for this purpose under the control of the County Council (see page 145), special assistance was asked for in 1927 by the notifying medical practitioners and provided by the County Council as follows :—consultants, 7; bacteriological examinations, 4; hospital treatment, 22; provision of trained nurses, 3.

In the area for this purpose under the local health authority, the assistance asked for in 1927 was :—consultants, 17; hospital treatment, 44; provision of trained nurses, 17.

OPHTHALMIA NEONATORUM.—The Public Health (Ophthalmia Neonatorum) Regulations, 1926, which revoked the regulations of 1914, became operative on the 1st October, 1926, and amending Regulations on the 1st July, 1928.

By notifications under these Regulations, and by medical help records received from certified midwives, 381 cases of inflammation of, or discharge from, the eyes came under notice; these 211 were notified as ophthalmia neonatorum. In the previous year these figures were 344 and 172 respectively. Of the 211 ophthalmia neonatorum cases in 1927, 62 were doctors' cases, that is, no certified midwife was in attendance, or, if present, only in the capacity of nurse.

The table below is collated from information supplied by the local Medical Officers of Health in their Annual Reports :—

OPHTHALMIA CASES.			Vision unimpaired.	Vision impaired.	Total blindness.	Deaths.
Number notified.	Treated at home.	Treated at hospital.				
208	158	48 and 2 at a Clinic	186	2	1	6

(These details are incomplete).

Special Assistance.—Under the Regulations the special assistance provided in 1927 by the County Council in the area under their control for this purpose, included hospital treatment in 8 cases, and in one instance the provision of a trained nurse. In the districts for this purpose under the control of the local health authority the special assistance included hospital treatment in 23 cases, and provision of trained nurses in 4 cases.

In the area under the charge of the County Council for child welfare purposes, it is a standing instruction to the nursing staff, who visit the homes in all notified cases of ophthalmia neonatorum, that in virulent cases where no other expert nursing is available, the nurse may put aside all other work until the eyesight of the child is beyond danger or past cure.

PEMPHIGUS NEONATORUM.—Sixteen cases of pemphigus were reported in 1927 in the practice of certified midwives in 15 different districts. Prompt measures were taken with a view to preventing further spread.

DISCIPLINARY MEASURES.—The disciplinary action taken during 1927 is shown in the following table. The number of charges of negligence or misconduct against the certified midwives practising in the County area was 58, compared with 55 in the preceding year, and 33 in 1925. A number of minor breaches of the Rules were also dealt with.

	Total No. of charges.	Result of action taken.				
		Struck off the Roll.	Sur-rendered Certificate and name removed from Roll.	Ap-peared before Mid-wives Act Committee and severely censured.	Cau-tioned by letter.	Cen-sured by County Medical Officer.
Puerperal fever and Puerperal pyrexia cases	9	—	1	—	8	—
Ophthalmia neonatorum cases	39	—	1	—	38	—
Other Offences	10	—	—	—	10	—

INSPECTION OF MIDWIVES.—With the object of improving the standard of practice of the midwives, regular visits of inspection are undertaken by the County Inspector of Midwives, and visits of enquiry are made regarding cases of puerperal septicæmia, ophthalmia neonatorum, pemphigus, &c., where a certified midwife has been in attendance. When necessary, special investigations are carried out by the Assistant County Medical Officers of Health, or by the County Inspector, or by the Health Visitors.

GRANTS, &C.—DISTRICT NURSING ASSOCIATIONS.—COMPENSATION, &C. TO MIDWIVES.—A sum of £195 4s. 0d. was allocated during the year 1927 to District Nursing Associations on account of the midwifery and maternity nursing work carried out by them, £135 4s. 0d. being the amount of the “grant” made by the Ministry of Health, the balance being supplied from the County funds. A sum of £33 7s. 2d. was paid by the County Council to midwives as compensation for loss of practice whilst under “suspension” on account of contact with infectious disease. In two districts subsidies were paid to midwives.

UNCERTIFIED WOMEN ACTING AS MIDWIVES.—Two prosecutions have been instituted under Section 1 (2) of the Midwives Act, 1926, against handywomen, that is, women not certified under the Midwives’ Acts, for attending women in childbirth otherwise than under the direction and personal supervision of a duly qualified medical practitioner. Both cases were dismissed. In one case the witnesses at the Police Court proceedings departed from their proofs of evidence. In the other case the evidence showed that the uncertified woman who had been “engaged” was sent for at 8.30 p.m. by the patient, “as labour was imminent,” and the doctor engaged for the case was not sent for until between 10.15 and 10.30 p.m., and when he arrived everything was over. The bench, in dismissing the case, considered that the defendant had acted “in the best interest of her client.”

Numerous inquiries have been made during the year respecting women alleged to be acting as midwives, although not certified, and suitable action was taken in accordance with the facts as ascertained.

LECTURES TO CERTIFIED MIDWIVES.—During the year lectures to certified midwives were given by the Assistant County Medical Officers, the County Inspector of Midwives, and the Organising Lecturer attached to the County Public Health Department.

Maternal Mortality.—The following table gives particulars of the maternal mortality associated with child-birth in the County area during the year 1927 and in the nine preceeding years, contrasted with the rates of England and Wales:—

Year.	ADMINISTRATIVE COUNTY.						ENGLAND AND WALES.		
	No. of Births.	No. of Deaths.		Mortality per 1000 births.			Mortality per 1000 births.		
		Child-birth (Mothers)	Puer-peral Sepsis.	Child-birth (Mothers)	Puer-peral Sepsis.	Total.	Child-birth (Mothers)	Puer-peral Sepsis.	Total.
1917	28,420	101	32	3.55	1.13	4.68	2.58	1.31	3.89
1918	27,736	112	44	4.04	1.59	5.63	2.51	1.28	3.79
1919	28,799	92	57	3.19	1.98	5.17	2.70	1.67	4.37
1920	39,767	117	81	2.94	2.04	4.98	2.52	1.81	4.33
1921	36,558	128	58	3.50	1.59	5.09	2.53	1.38	3.91
1922	32,011	97	56	3.03	1.75	4.78	2.43	1.38	3.81
1923	30,672	94	42	3.06	1.37	4.43	2.51	1.30	3.81
1924	29,519	103	46	3.49	1.56	5.04	2.51	1.39	3.90
1925	34,713	108	41	3.80	1.44	5.24	2.52	1.56	4.08
1926	27,944	117	70	4.19	2.51	6.70	2.52	1.60	4.12
1927	26,263	90	40	3.43	1.52	4.95	2.54	1.57	4.11

Figures extracted from the Annual Reports of the Registrar-General.

The maternal mortality rate for the County fell from 6.70 per 1,000 births in 1926 to 4.95 for the year under report—a rate lower than in the preceeding three years. The sepsis rate showed a fall of 1 per 1,000 births, the deaths classified by the Registrar-General as due to this cause in 1927 numbering 40, against a total of 70 in the year 1926.

The following table compares the maternal mortality rate, covering a period of five years (1923–1927) of certain manufacturing, mining, agricultural and residential areas of the Administrative County.

			5 Years, 1923—1927.			Mortality per 1,000 births.			
			No. of Districts in the Groups.	No. of Births.	No. of Deaths.		Puer-peral Sepsis.	Other accidents and diseases of Pregnancy.	Total.
					Puer-peral Sepsis.	Other accidents and diseases of Pregnancy.			
Manufacturing Areas	...	21	29,086	55	128	1·89	4·40	6·29	
Mining Areas	...	16	17,044	21	67	1·23	3·93	5·16	
Agrieultural Areas...	...	19	19,529	28	66	1·43	3·37	4·81	
Residential Areas	...	10	4,778	9	16	1·88	3·34	5·23	

On the 23rd April, 1928, the Ministry of Health issued to Maternity and Child Welfare Authorities Circular 888 on the subject of maternal mortality, “the continued high level of which causes him much concern.” The Minister has expressed the opinion that there should be an investigation in every area by a competent and experienced medical officer, of all maternal deaths, and of all cases of puerperal fever, with a view to ascertaining more exactly the actual causes which lead to maternal mortality in order to provide further means of prevention. It is the Minister’s intention to set up at the Ministry a representative Maternal Mortality Committee somewhat on the lines of the Cancer Committee, whose duty, among other matters, will be to consider these investigations.

The Midwives and Maternity Homes Act, 1926.—REGISTRATION OF MATERNITY HOMES.—The sections of this Act which deal with the registration of maternity homes were repealed from the 1st July, 1928, by the Nursing Homes Registration Act, 1927, under which both maternity and nursing homes are now to be registered.

Below is given a summary of the action taken under the 1926 Act to the date of its repeal.

Applications for registration or exemption numbered 104. These have been dealt with as follows :—

Certificates of Registration issued	85
(5 subsequently cancelled by request)	
Applications withdrawn	14
(Unable to comply with the requirements)	
Applications refused	2
(Unsuitable premises)	
Certificates of Exemption issued	3

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The following table shows the County districts from which the applications have been received :—

District.	Total applica- tions.	Certifi- cates of Registra- tion issued.	Applications.		Certifi- cates of Exemption granted.
			With drawn.	Refused.	
Acerington (B)	2	1	...	...	1
Ashton-under-Lyne (B)	3	2	1	...	...
Barrowford	1	1	...	...	...
Clayton-le-Moors	2	2	...	...	...
Crompton	2	2	...	...	...
Darwen (B)	2	2	...	...	...
Eccles (B)... ..	3	3	...	...	...
Farnworth	2	2	...	...	...
Fleetwood	4	*4	...	...	...
Formby	2	2	...	...	...
Fulwood	2	2	...	...	...
Great Crosby	3	3	...	...	...
Great Harwood	2	1	1	...	...
Heysham	3	3	...	...	...
Heywood	1	1	...	...	...
Horwich	2	2	...	...	...
Huyton-with-Roby	1	1	...	...	...
Kearsley	1	1	...	...	...
Kirkham	1	1	...	...	...
Lancaster (B)	1	1	...	...	...
Little Hulton	1	...	...	1	...
Longridge	1	1	...	...	...
Lytham Saint Anne's (B)	8	†5	2	...	1
Middleton (B)	1	1	...	...	...
Morecambe (B)	2	1	1	...	...
Ormskirk	1	1	...	...	...
Padiham	3	2	1	...	...
Prestwich	2	1	1	...	...
Radcliffe	1	1	...	...	...
Ramsbottom	2	1	1	...	...
Stretford	10	9	...	...	1
Swinton and Pendlebury	1	1	...	...	...
Thornton Cleveleys	3	†3	...	...	...
Tottington	3	2	1	...	...
Turton	2	1	1	...	...
Ulverston	4	†2	2	...	...
Waterloo-with-Seaforth	11	10	1	...	...
Whitefield	1	...	...	1	...
Whitworth	1	1	...	...	...
Widnes (B)	1	1	...	...	...
Worsley	1	1	...	...	...
Lunesdale (R)	1	1	...	...	...
Preston (R)	1	1	...	...	...
Sefton (R)	1	1	...	...	...
Warrington (R)	1	...	1	...	...
Total	104	85	14	2	3

* Two subsequently cancelled.

† One subsequently cancelled.

The Nursing Homes Registration Act, 1927.—This Act becomes operative on the 1st July, 1928, and provides for the registration of both nursing and maternity homes. As previously stated it repeals from the commencement of the Act, the registration clauses in the Maternity Homes Act of 1926, and so much of any Local Act as provides for the registration of Maternity Homes.

A "Nursing Home" is defined as any premises used or intended to be used for the reception of and the providing of nursing for persons suffering from any sickness, injury or infirmity, and includes a maternity home. A "Maternity Home" is defined as any premises used or intended to be used for the reception of pregnant women or of women immediately after childbirth.

The "Local Supervising Authority" is the County Council, or the County Borough Council, but a County Council may, on the application of the Council of any district within the County, delegate with or without restrictions or conditions any of the powers and duties of the County Council under the Act.

MATERNITY AND CHILD WELFARE IN THE COUNTY.

County Council Child Welfare Scheme.—The County Council's Child Welfare Area, comprises 77 districts, the urban districts of Abram, Crompton and Padiham being included in the scheme during the year 1927. From these 77 districts the copy notification of births received in 1927 by the County Medical Officer of Health under the provisions of the 1915 Act numbered 9,282. The actual number of births registered in these districts was 10,418.

In the remaining 43 County districts, the Local Sanitary Authorities are responsible for Maternity and Child Welfare work.

Child Welfare work is therefore divided as follows :—

	Estimated Population.	No. of Births registered in 1927.
Undertaken by the County Council—in 77 districts (1 borough, 57 urban, and 19 rural districts) ...	690,776	10,418
By Local Sanitary Authorities—in 43 districts (18 boroughs and 25 urban districts)	1,110,724	15,845
	1,801,500	26,263

Since April, 1919, the whole of the medical and nursing staffs of the County Education Committee and of the County Public Health and Housing Committee have been fused into one, under a single administrative head, the County Medical Officer, who is also the School Medical Officer. The Assistant County Medical Officers are also the Assistant School Medical Officers, and the School Nurses are also the Health Visitors.

The following statement shows the work done by the County Health Visitors during the year 1927 :—

HOME VISITS—

(Infants under one year)—

No. of 1st Visits	9,988
No. of Re-visits	39,097

(Children 1—5 years of age)—

No. of Visits	31,644
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ANTE-NATAL WORK—

(Expectant Mothers)—

No. of 1st Visits	2,199
No. of Re-visits	1,633

OTHER VISITS—

Special Visits to Older Children ; to Medical Officers of Health ; &c.	1,228
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VISITS TO CASES OF OPTHALMIA NEONATORUM AND OTHER MATTERS ...	287
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During the year one new Child Welfare Centre was opened, and a full list of the Centres is given on pages 146 and 147.

Some of the Centres have been taken over from Local Sanitary Authorities which had previously established them, and in a few of these cases the visiting Medical Officer is the local Medical Officer of Health. In all cases, however, the Health Visitor has become also a School Nurse for her district in the County.

Voluntary Helpers, as in the past, continue to do good work at these Centres, and a further interesting development is the attendance at the Centres of some of the older girls of the Elementary Schools of the neighbourhood, who receive instruction from the doctor or nurse in mothercraft.

The supply of dried milks or milk powders at the Centres is continued on the same terms as described in the Annual Report for 1925, and there is also an extensive scheme for the provision of fresh milk to expectant or nursing mothers and to young children. Every medical man agrees that the best food for the baby is the natural supply, and it is regrettable that some mothers only begin their attendances at the Centres when the natural supply has failed and artificial feeding has begun.

COUNTY CHILD WELFARE CENTRES.—The following is a list of the Child Welfare Centres established by the County Council :—

Distriet.	Address of Child Welfare Centre.	Day and Time Open.	Medical Officer.	Nurse.
Abram	Near Council Offices, Abram	Alternate Wed., 2.30— 4.30 and for sale of food on other Wed. from 10.30 to noon	Dr. Erskine ...	Miss Unsworth
Adlington	Wesleyan Sunday School, Market Street	Wednesday, 2—4 ...	Dr. Johnstone	Miss Kennedy
Aspull (New Springs)	Ind. Methodist Sunday School, New Springs	Wednesday, 2—4 ...	Dr. Hall ...	Miss Evans
Audenshaw	Hooley Hill Ind. Church, Bridge Street	Monday, 2—4	Dr. Cronk ...	Miss Dickinson
Barrowford	Congl. Sunday School, Hill Top	Thursday, 2—4 ...	Dr. Corbett ...	Miss Wright
Bamber Bridge (Walton-le-Dale)	Conservative Club, Cranborne Road	Thursday, 2—4 ...	Dr. Johnstone	Miss Canton
Billinge	Conservative Club ...	Wednesday, 2—4	Dr. Wright ...	Miss Singleton
Blackrod	Church House Institute	Tuesday, 2—4 ...	Dr. Galloway	Miss Evans
Briercliffe (Burnley, R.)	Tennyson Street Mission Hall	Alternate Wednesdays, 2.30—4	Dr. Corbett ...	Miss Mares
Bromley Cross (Turton)	Birtenshaw Wes. Sunday School, Darwen Road	Monday, 2.30—4.30 ...	Dr. Jagger ...	Miss Lynch
Burtonwood (Warrington, R.)	Church Hall	Thursday, 10—12 ...	Dr. Crawford ...	Mrs. Birehall
Church	Baptist Sunday School, Ernest Street	Thursday, 2—4 ...	Dr. Holroyd ...	Miss Faweett
Clayton-le-Moors ...	Town Hall	Thursday, 2—4 ...	Dr. Holroyd ...	Mrs. Gray
Clifton (Barton-upon- Irwell, R.)	Parish Rooms, Rake Lane	Wednesday, 2.30—4.30	Dr. Davidson	Miss Dunn
Coppull (Chorley, R.)	Wesleyan Sunday School, Chapel Street	Thursday, 2—4 ...	Dr. Johnstone	Miss Beach
Crompton	Town Hall	Wednesday, 2—4 ...	Dr. Porter ...	Miss MacDonald
Dalton-in-Furness ...	Carnegie Library ...	Thursday, 2—4 ...	Dr. Tomb ...	Miss Tomkinson
Davyhulme (Barton- upon-Irwell, R.)	Sandgate Drive, Urmston	Monday, 2.30—4 ...	Dr. Davidson	Mrs. Chambers
Droylsden	Wesleyan Schools, Manchester Road	Tuesday, 2—4 ...	Dr. Cronk ...	Mrs. Hutchinson
Feniseowles (Blackburn, R.)	Mission Hall, Preston Old Road	Tuesday, 2—4	Dr. Holroyd ...	Mrs. Beckett
Fleetwood	(1) Orient Buildings, Station Road	Tuesday, 2—4 ...	Dr. Batty ...	Mrs. Dewhurst
„	(2) „ „ „ ...	Wednesday, 2—4 ...	Dr. Batty ...	Miss Knowles
Flixton (Barton-upon- Irwell, R.)	The Institute, Flixton Road	Tuesday, 2.30—4 ...	Dr. Davidson	Mrs. Chambers
Haydock	Wesley Sunday School, Clipsley Lane	Wednesday, 2—4 ...	Dr. Crawford ...	Miss Hodgson

District.			Address of Child Welfare Centre.	Day and Time Open.	Medical Officer.	Nurse.
Irlam	...	...	Longfield Lodge, Cadishead	Alternate Wednesdays, 2—4	Dr. Roberts ...	Mrs. Smith
„	...	...	Primitive Methodist School, Irlam			
Kearsley	...	...	New Jerusalem School, Greenwood Street	Thursday, 2—4 ...	Dr. Jagger ...	Miss Dunn
Kirkham	...	...	Ambulance Rooms, Mellor Road	Thursday, 2—4 ...	Dr. Fisher ...	Miss Smith
Leyland	...	...	(1) Bradshaw Street Mission Room	Alternate Wednesdays, 2—4	Dr. Wray ...	Miss Rigby
„	...	...	(2) Congl. Schools, Quin Street	Thursday, 2.30—4 ...	Dr. Wray ...	Miss Rigby
Little Lever	...	...	Church House Institute	Thursday, 2.30—4 ...	Dr. Hutchinson	Miss Wellard
Littleborough	...	...	Rockley House ...	Thursday, 2—4 ...	Dr. Topping ...	Miss Sizer
Longridge	...	...	Drill Hall ...	Alternate Tuesdays, 2—4	Dr. Wray ...	Mrs. Hoey
Litherland	...	...	32, Linacre Road ...	Tuesday, 2—4 ...	Dr. Barker ...	Miss Robinson Miss Shaw
Milnrow	...	...	Free Library ...	Tuesday, 2—4 ...	Dr. Topping ...	Miss Sizer
Morecambe (B)	...	...	West End Wesleyan Sunday School	Monday, 2—4 ...	Dr. Tomb ...	Miss Menzies
Norden	...	...	Liberal Club ...	Wednesday, 2—4 ...	Dr. Topping ...	Miss Cubbin
Ormskirk	...	...	Church House, Church Street	Monday, 2—4 ...	Dr. Barker ...	Miss Dickinson
*Oswaldtwistle	...	...	Barnfield House...	Tuesday, 2—4 ...	Dr. Townley ...	Miss Townend
„	...	...	Conservative Club, Belthorn	Quarterly ...	—	Miss Townend
Padiham	...	...	West Bank House ...	Tuesday, 2.30—4 ...	Dr. Corbett ...	Mrs. Read
Poulton	...	...	St. Chads' Church Hall	Alternate Tuesdays, 2—4	Dr. Fisher ...	Miss Procter
Prescot	...	...	Old Grammar School, High Street	Alternate Mondays and each Thursday, 2—4	Dr. Wright ...	Miss Walters Miss Heseltine
Rishton	...	...	108, High St. ...	Tuesday, 2—4 ...	Dr. Holroyd	Miss Fawcett
Skelmersdale	...	...	Congregational Schools, Witham Street	Wednesday, 11—1 ...	Dr. Gray ...	Miss Fry
Standish	...	...	Wesleyan Sunday School	Wednesday, 2—4 ...	Dr. Johnstone	Miss Irving
Thornton	...	...	Primitive Meth. Sunday School, Fleetwood Rd.	Thursday, 2—4 ...	Dr. Batty ...	Miss Procter
Tottington	...	...	Council Offices ...	Wednesday, 2.30—4 ...	Dr. Hutchinson	Mrs. Hilton
Ulverston	...	...	Ratton Row Mission Hall	Tuesday, 2—4 ...	Dr. Tomb ...	Miss Holmes
Urmston	...	...	Co-operative Hall, Higher Road	Wednesday, 2—4 ...	Dr. Scholefield	Miss Lawley
Walkden (Worsley)	...	...	Town Hall, Walkden ...	Thursday, 2.30—4 ...	Dr. Scholefield	Miss Murphy
Waterloo (Limehurst R.)	...	...	United Methodist Sunday School	Alternate Thursdays, 2—4	Dr. Porter ...	Mrs. Stringer
Whitefield	...	...	“ Uplands ” ...	Tuesday, 2.30—4 ...	Dr. Hutchinson	Mrs. Tregarthen
Whitworth	...	...	Registry Office, Station Road, Facit	Thursday, 2.45—4 ...	Dr. Forbes ...	Miss Cubbin

* Taken over by County Council from Local Authority, 1st April, 1928.

COUNTY BRANCH CENTRES FOR SUPPLY OF DRIED MILK.

District.	Address of Centre.			Day and Time Open.	Nurse.
Great Crosby	57, York Avenue ...			Wednesday, 2—4 ...	Mrs. Palin
Lathom and Burscough	Council Offices			Friday, 1—2	Miss Dickinson

The following table gives a statistical summary of the work done in the Centres during 1927, together with the number of births notified during the year :—

Name of Child Welfare Centre.	No. of Times Open.	No. of Births Notified during the 12 months.	No. of individual children attending.			No. of attendances by children.			No. of attendances by expectant mothers.		No. of attendances by other women.	
			Under 1 year old.	From 1—2 years old	Over 2 years old.	Under 1 year old.	From 1—2 years old	Over 2 years old.	No. of individual expectant mothers attending.	No. of actual attendances.	No. of individual women attending.	No. of actual attendances.
(a) Abram ...	19	77	85	43	32	437	195	99	12	28	25	75
Adlington ...	47	48	65	45	72	847	697	928	45	138	50	253
Aspull ...	48	141	161	70	21	1504	483	74	32	89	38	48
Andenshaw ...	48	116	138	85	51	1691	669	250	14	77	14	239
Bamber Bridge ...	48	61	118	72	109	745	522	678	29	144	91	298
Barrowford ...	48	67	88	48	55	578	204	174	6	9	11	12
Billinge ...	46	68	59	31	26	532	320	127	16	59	1	2
Blackrod ...	48	54	65	30	21	732	183	43	4	7	37	51
Briercliffe ...	23	21	39	22	31	276	113	145	1	2	7	12
Bromley Cross ...	47	24	101	53	94	752	155	331	22	56	39	276
Burtonwood ...	48	44	52	22	22	432	182	174	8	32	12	48
Church ...	48	62	125	63	67	1074	425	488	8	27	21	179
Clayton-le-Moors ...	47	108	77	41	26	547	287	220	14	64	17	188
Clifton ...	45	36	46	26	24	503	372	270	1	28	4	147
Coppull ...	47	96	78	63	39	680	742	443	18	92	13	447
(a) Crompton ...	40	138	149	49	30	1309	344	144	3	15	1	6
Dalton-in-Furness ...	49	177	177	143	132	1546	1488	1208	75	352	—	—
(b) Davyhulme ...	43	32	28	20	20	307	207	316	7	65	5	200
Droylsden ...	48	179	274	144	75	3249	968	384	10	38	22	294
Feniscowles ...	48	9	22	22	27	162	198	208	2	13	14	67
Fleetwood (No. 1) ...	46	453	113	78	76	989	472	382	8	34	12	68
Fleetwood (No. 2) ...	46		270	95	82	1756	430	397	21	51	3	4
(c) Flixton ...	44	86	115	45	58	1336	391	391	15	74	20	255
Haydock ...	48	220	167	89	34	1187	686	220	26	85	2	6
Irlam (Prim. Meth.) ...	26	197	98	23	8	1133	393	81	2	12	38	201
Irlam (Longfield L.) ...	26		119	33	16	1787	454	141	9	46	58	435
Kearsley ...	49	126	167	83	73	1830	653	303	8	71	21	114
Kirkham ...	47	74	129	62	42	1178	411	286	6	42	12	90
Leyland (Brad. St.) ...	25	114	13	14	24	126	131	161	3	28	9	162
Leyland (Quin St.) ...	44		97	56	60	898	345	667	7	48	12	210
Litherland ...	48	220	207	72	162	1684	513	774	34	145	20	122
Littleborough ...	54	147	213	77	119	1622	465	508	11	42	6	11
Little Lever ...	49	61	78	28	30	813	157	120	16	47	54	144
Longridge ...	24	48	71	55	50	397	198	178	8	41	12	66
Milnrow ...	49	97	116	27	38	1278	158	115	4	18	2	13
Morecambe ...	47	167	206	74	122	1578	510	511	14	74	—	—
(d) Norden ...	23	20	40	23	35	304	145	127	5	13	1	1
Ormskirk ...	48	134	99	41	72	1348	510	683	21	120	15	106
(e) Padiham ...	12	44	39	19	24	131	61	88	6	12	1	1
Poulton-le-Fylde ...	24	44	34	17	14	179	77	30	1	3	5	34
Preseot ...	73	177	285	144	114	1836	636	674	60	259	9	46
(f) Rishton ...	27	54	64	28	20	415	70	48	2	2	22	93
Skelmersdale ...	48	109	98	61	77	1053	625	912	20	99	30	281
Standish ...	48	110	106	84	106	807	709	776	23	83	96	261
Thornton ...	48	132	71	50	63	501	339	464	9	42	29	81
Tottington ...	47	79	80	31	56	692	244	220	13	56	10	41
Ulverston ...	48	152	149	101	135	1650	1268	1492	49	316	—	—
Urmston ...	48	64	51	33	25	360	173	138	7	37	14	16
Walkden ...	49	101	121	67	31	940	322	66	3	3	42	126
Waterloo ...	26	44	70	23	14	583	185	49	8	15	4	8
Whitefield ...	45	69	144	62	41	1052	443	163	5	7	3	5
Whitworth (Facit) ...	49	109	98	50	50	775	278	168	13	38	—	—

(a) Included in County Scheme from 1st April, 1927.

(b) Davyhulme Child Welfare Centre closed during August.

(c) Flixton Child Welfare Centre closed during August.

(d) Norden Child Welfare Centre opened 20th July, 1927.

(e) Included in County Scheme from 1st October, 1927.

(f) Rishton Child Welfare Centre opened 13th June, 1927.

During the year 1927, 82,117 lbs. of dried milks and of Virol and Cod Liver Oil and Malt were supplied at the Centres, and 541,264 pints of fresh milk were supplied directly to the recipients by milk purveyors.

SUPPLY OF MILK AND OTHER FOODSTUFFS.—Table 23, page 149, is a statement showing the total sales of dried milk, cod liver oil, &c., at the County Child Welfare Centres during the year ended 31st December, 1927.

ADMINISTRATIVE COUNTY OF LANCASTER.

TABLE 23—SUMMARY OF SALES OF DRIED MILKS, ETC., AT THE COUNTY CHILD WELFARE CENTRES
DURING THE YEAR ENDED 31ST DECEMBER, 1927.

Foodstuffs, etc.	Stock during year.		Disposed of					Free.		Stock on hand 31st Dec., 1927.	
	Units.	Cost. £ s. d.	At Cost Price or Over.			At Less than Cost Price.			Loss. £ s. d.	Units.	Cost. £ s. d.
			Units.	Amount received. £ s. d.	Profit. £ s. d.	Units.	Amount received. £ s. d.	Loss. £ s. d.			
Cow and Gate	29280	2208 15 2	17493	1455 12 0	227 10 10	781	32 10 6	32 9 10	9008	1998	165 13 0
Stand. Glaxo	20285	1541 0 8	9523	792 15 8	145 12 0	805	33 11 10	33 9 2	7704	2253	187 10 8
Pres. Glaxo	4388	331 1 4	2843	236 18 4	34 12 0	...	...	...	1005	540	45 0 0
Virol	16149	807 9 0	12795	639 15 0	...	55	1 7 6	1 7 6	1458	1841	92 1 0
Cod Liver Oil and Malt	10476	369 3 11	6181	238 19 4	41 11 7	61	1 11 8	0 16 11	3166	1068	44 18 0
Horlick's Malted Milk	3754	475 5 10	2931	378 11 9	9 12 0	12	0 18 0	0 13 0	...	811	104 15 1
Virolax	876	44 10 0	673	36 9 1	2 19 0	...	...	...	9	194	10 10 2
Lactagol	396	23 11 9	197	13 2 8	2 16 3	...	...	...	122	77	5 2 8
Vitamin Malt.....	83	4 8 7	53	3 1 10	0 8 3	...	...	...	18	12	0 14 0
Ostelin Malt	340	14 4 6	142	6 11 0	1 8 0	2	0 0 6	0 1 4	155	41	1 17 7
Cod Liver Oil Emulsion	460	31 4 0	415	31 2 6	3 6 0	1	0 1 4	0 0 2	19	25	1 17 6
Aberdeen Emulsion	108	5 3 3	36	1 16 4	0 9 9	1	0 0 7	0 0 6	23	48	3 0 8
Almata	1372	124 4 2	1157	116 17 2	14 17 10	...	...	...	115	100	10 16 8
Ambrosia	3047	226 11 8	2485	207 1 9	24 0 1	1	0 0 10	0 0 10	256	305	25 8 4
Cod Liver Oil.....	242	5 4 0	165	4 2 6	0 17 0	...	...	...	3	74	1 17 0
Liquid Paraffin	36	1 7 0	11	0 8 3	...	...	...	...	...	25	0 18 9
N. Z. Cream	56	7 0 0	46	5 15 0	...	1	0 1 3	0 1 3	8	1	0 2 6
Humanised Milk	16	1 4 0	...	...	...	...	...	...	...	...	...
Secwa Whey Powder	44	2 7 8	...	...	...	...	...	...	16	...	...
Sacker's Combs	260	29 5 0	182	20 9 6	...	...	...	...	44	...	...
Booklets	164	2 14 8	97	1 12 4	...	...	...	...	...	78	8 15 6
Totals	91832	6255 16 2	57425	4191 2 0	510 0 7	1720	70 4 0	69 0 6	23129	9558	712 1 5

Milk, &c., to Necessitous Cases.—The following is a statement showing the amount of milk and other foodstuffs supplied by the County Council to necessitous cases during the year 1927 :—

Food Supplied.	Old Cases.		New Cases.		Total of Old and New Cases.			
	No. of Cases	Quantity Supplied.	No. of Cases.	Quantity Supplied.	Less than Cost Price.		Free of Cost.	
					No. of Cases	Quantity Supplied.	No. of Cases.	Quantity Supplied.
Fresh Milk ...	2,008	238,284 pints	1,183	302,980 pints	83	13,204 pints	3,108	528,060 pints
Glaxo ...	193	3,304 lbs.	251	6,137 lbs.	34	784 lbs.	410	8,660 lbs.
Cow and Gate...	140	3,526 lbs.	160	6,054 lbs.	32	754 lbs.	268	8,826 lbs.
Cod Liver Oil and Malt ...	189	1,196 lbs.	214	2,321 lbs.	5	33 lbs.	398	3,484 lbs.
Almata ...	1	18 lbs.	7	99 lbs.	1	2 lbs.	7	115 lbs.
Ambrosia ...	11	95 lbs.	8	112 lbs.	1	1 lb.	18	206 lbs.
Vitamin Malt...	1	6 lbs.	1	6 lbs.	...	...	2	12 lbs.
Laetamol ...	1	12 lbs.	8	85 lbs.	...	...	9	97 lbs.
Ostelin...	1	32 lbs.	22	97 lbs.	3	11 lbs.	20	118 lbs.
Virol ...	40	478 lbs.	82	1,033 lbs.	7	51 lbs.	115	1460 lbs.
Virolax ...	...	...	2	8 lbs.	...	...	2	8 lbs.
New Zealand Cream ...	...	...	4	8 lbs.	...	...	4	8 lbs.
Cod Liver Oil Humanized	...	...	16	139 lbs.	...	...	16	139 lbs.
Milk Powder Aberdeen	...	...	2	14 lbs.	...	...	2	14 lbs.
Emulsion ...	...	...	10	24 lbs.	1	1 lb.	9	23 lbs.
Cod Liver Oil Emulsion ...	...	...	4	19 lbs.	...	...	4	19 lbs.
Horlick's M. M.	...	...	2	12 lbs.	2	12 lbs.	...	...

NOTE.—By “ Old ” case is meant one which was granted prior to January, 1927.

By “ New ” case is meant one which has been granted during the year 1927.

COUNTY ANTE-NATAL CENTRES.—Further extensions of Ante-natal care are now taking place in the County area, in the hope of still further reducing the infant mortality, the maternal mortality, and the number of defectives in the population. Ante-natal Centres have been established in Irlam and in Litherland, which are supervised by Obstetrical Specialists from the staff of Manchester and Liverpool Hospitals. At these Ante-natal Centres the expectant mothers are carefully examined and measured by the specialists, and are advised about their health and about the hygiene of pregnancy. Where there is reason to anticipate any difficulty or danger at the confinement, arrangements are made for admission to Maternity Hospitals (the Stretford Memorial Hospital and the Liverpool Maternity Hospital), where the confinement is conducted by the Specialist who has seen the mother at the Ante-natal Clinic.

During the year expectant mothers were seen by the doctors or nurses on 3,489 occasions.

Further particulars of the County Council's Clinics are given below :—

District.	Address of Ante-Natal Clinic	Day and Time Open.	Medical Officer.	Specialist Medical Officer.	Nurse.
Irlam ...	Longfield Lodge, Cadishead	Alternate Friday, 2—3 p.m.	Dr. E. Scholefield	Dr. C. P. Brentnall attends alternate sessions.	Mrs. G. Smith
Litherland	32, Linaere Road	Alternate Thursday, 2—3 p.m.	Dr. L. E. Barker	Dr. J. W. Burns, attends alternate sessions.	Miss M. Robinson. Miss E. Shaw.

Arrangements have also been made with the Borough of Widnes for the attendance of expectant mothers from the adjacent County Area at the Widnes Ante-Natal Clinic. This Clinic is held from 1.30 to 4.30 p.m. on the second and fourth Wednesdays in each month, and is attended by Dr. Willett, of Liverpool.

MATERNITY HOMES.—The County Maternity and Child Welfare Sub-Committee have made arrangements with the following 16 Maternity Hospitals or Homes in which parturient women are admitted on such terms as they can afford, the County Council paying the balance of the fee :—Maternity Home, Whitegate Drive, Blackpool; Maternity Home, Fern Lea, Nelson; Maternity Home, Victoria Park, Warrington; Haslam Maternity Home, “ Ravenswood,” Chorley New Road, Bolton; Maternity Hospital, Springfield House, Roehdale; Maternity Department, Whiston Infirmary, Prescot; Maternity Home, 51, Balliol Road, Bootle; District Infirmary and Children's Hospital, Ashton-under-Lyne; Bealey Maternity Home, Radeliffe; Rest Home, Chatham Street and Maternity Hospital, Liverpool; Memorial Hospital, Stretford; Corporation Maternity Hospital, Burnley; Corporation Maternity Hospital, Blackburn; Corporation Maternity Home, Leigh; Corporation Maternity Home, Colne, and Ethel Gossage Maternity Home, Widnes.

To these Maternity Hospitals or Homes two types of cases are admitted, those in which there is any reason to anticipate an abnormal or dangerous labour and those whose home surroundings are not such as will allow the labour to be conducted with decency or with safety to the mother.

In each case a strict investigation is made into the financial circumstances before authority is granted to enter the Hospital or Home.

In addition to those previously mentioned, arrangements have been made for the admission of Ante-Natal cases to Institutions at Blackburn, Burnley and Liverpool.

There is the problem of the unmarried mother and of the illegitimate child. The Maternity and Child Welfare Sub-Committee have made arrangements with a Home for unmarried mothers whereby these women can be received into the Homes several months before their confinement and may remain there for several months afterwards so that they may not be separated from their babies. No case under these arrangements has, however, arisen. In cases where the mother is separated from her baby, an arrangement has been made with the Fulwood Home for Homeless Infants whereby such babies are received and looked after until they can be adopted.

Arrangements have been made with the Corporation of Burnley for the admission of non-thriving babies up to two years of age to the Baby Ward of the Bank Hall Maternity Hospital. This is not a hospital for definite diseases, but for marasmus and ricketty children and children whose primary need is dieting.

Local Child Welfare Schemes.—The following is a list of the Child Welfare Centres which have been established by Town and Urban District Councils :—

LIST OF CHILD WELFARE CENTRES WHICH HAVE BEEN ESTABLISHED BY
LOCAL SANITARY AUTHORITIES.

District.	Address of Child Welfare Centre.	Day and Time Open.	Health Visitor Appointed.
*Abram	Building, near Council Offices ...	Alternate Wednesdays, 3	Whole time
Accrington (B)	Ambulance Drill Hall, Bull Bridge... Municipal Maternity Home, Rough Lee	Daily, 9—11, Thursday, 3—5 Ante-natal Clinic Friday, 10—12	One Senior Health Visitor; three Health Visitors who also act as School Nurses
Ashton-in-Makerfield ...	Congregational Sunday School, Gerard Street	Thursday, 2—4 ...	Whole time
Ashton-under-Lyne (B)	Enville House, Scotland Street ... Richmond House, Richmond Street	Tuesday & Wednesday, 2—4, Monday, 9—12, Thursday, 2—4	Whole time (3); part time (1)
Atherton	Ormonde Street School, Hurst ... Formby Hall	Wednesday, 2—4 Tuesday, 2.15—3.30 ...	Whole time
Bacup (B)	Rochdale Road	Wednesday, 2—4 ...	Two Health Visitors who act also as School Nurses.
Brierfield	Ambulance Hall, Crabtree Street ...	Wednesday, 3—4.30, Thursday, 2.30—5, Friday, 2—7.30 Ante-natal Meetings, alternate Thursdays, 7—8	Whole time
Chadderton	Washbrook Primitive Methodist School	Monday and Tuesday, 2—5	Whole time (2)
Chorley (B)	Eaves Lane Congregational School St. George's Street School Public Health Department	Wednesday, 2.30—4 Thursday, 2.30—4 Ante-Natal Clinic, first Wednesday in each month, 10	Whole time (2)
Clitheroe (B)	The Castle	Fortnightly— Tuesday, 3	Whole time
Colne (B)	Bank House, Albert Road	Wednesday and Thursday, 10—11 and 2.30—4	Whole time
*Crompton	Town Hall, Shaw	Wednesday, 2—4 ...	Whole time
Darwen (B)	43, Bolton Road Greenfield Institute	Daily, 9—10, 4.30—5.30 Tuesday and Wednesday, 2.30—5 Thursday, 2.30—5	Whole time (2)
Denton	Market Place	Monday, 2—5	Whole time
Eccles (B)	Green Lane, Patricroft	Monday, Tuesday, Wednesday and Thursday, 2—4.30 Ante-natal Meetings, alternate Fridays, 2.30—4.30	One Senior Health Visitor; four Health Visitors who also act as School Nurses
Failsworth	Carnegie Library	Wednesday, 2—4.45 ...	Whole time
Farnworth	Wesley School, Market Street ...	Monday, Wednesday and Friday, 2.30—4.30	Whole time (2)
Golborne	Methodist School, High Street ...	Alternate Thursdays, 2.30—4	Whole time
Great Harwood	Town Hall	Alternate Tuesdays, 2.30—4.30	Part time
Haslingden (B)	Old Wesleyan School, Manchester Road	Alternate Thursdays, 2.30—4	Health Visitor also acts as School Nurse

* Transferred to the County Council on 1st April, 1927.

LIST OF CHILD WELFARE CENTRES.—*continued.*

District.	Address of Child Welfare Centre.	Day and Time Open.	Health Visitor Appointed.
Heywood (B)	Hornby Street Sunday School ...	Thursday, 2—5 ...	Three Health Visitors, who also act as School Nurses Whole time
Hindley	White House, Liverpool Road ...	Daily, 2—5 ... Ante-Natal Clinic, Wednesday, 3—4	
Horwich	Public Hall	Daily, 9—10; Wednesday and Thursday, 3—5 Ante-natal Clinic, held fortnightly	Whole time (2)
Ince-in-Makerfield ...	Council Offices	Tuesday and Thursday, 2—4	Whole time (2)
Lancaster (B)	Thurnham House, Thurnham Street	Tuesday and Thursday, 2—5 Ante-natal Clinic, Friday, 2—5	Four Health Visitors who also act as School Nurses
Leigh (B)	Council School, Skerton Stone House, St. Helens Road ...	Monday, 2—5 Monday, 2—5 Ante-natal Clinic, Monday, 2—5	Five Health Visitors, who also act as School Nurses
Lytham Saint Anne's (B)	Coal Pit Lane Congregational School, Lytham ... Public Offices, South Drive, St. Annes	Wednesday, 2—5 Thursday, 2.30—5 ... Tuesday, 2.30—5	Two Health Visitors, who also act as School Nurses
Middleton (B)	Health Department, Durnford Street Middleton Junction	Thursday, 2—5; alternate Wednesdays 2—5 Alternate Wednesdays, 2—5	Three Health Visitors, who also act as School Nurses
Mossley (B)	Wesleyan Schools, Stamford Road...	Wednesday, 3 ...	Whole time
Nelson (B)	9, Carr Road	Wednesday, 2 ...	Whole time (2)
Newton-in-Makerfield ...	Town Hall, Earlestown Town Hall, Newton-le-Willows ...	Thursday, 2.30—4.30 Monday, 3—4	Whole time
Orrell	Council Offices	Thursday, 3	District Nurse acts as Health Visitor
†Oswaldtwistle	Barnfield House Conservative Club, Belthorn ...	Tuesday, 2.30 Once per quarter	Whole time
‡Padiham	West Bank House	Wednesday, 2—4	Whole time
Prestwich... ..	Wesleyan Schools, Chapel Street ...	Wednesday, 2—5 ...	Whole time
Radcliffe	Close Park	Tuesday and Thursday, 1.30—4 Ante-natal Clinic, Tuesday, 10—12	Whole time (1); part time (1)
Ramsbottom	Technical School, Stubbins Lane ...	Tuesday, 2	Whole time
Rawtenstall (B)	Council School, Cloughfold Council School, Goodshaw Council School, Whitewell Bottom	1st and 3rd Tuesday, 2.30—4 2nd and 4th Tuesday 2.30—4 2nd and 4th Tuesday, 2.30—4	Two Health Visitors, who also act as School Nurses
Royton	Town Hall	Wednesday, 2—5 ...	Whole time
Stretford	40, Talbot Road, Old Trafford ... Sixth Street, Trafford Park Town Hall Stretford Memorial Hospital ...	Monday and Thursday 2—4.30 Tuesday, 2—4.30 Wednesday, 2.30—4 Ante-natal Clinic, monthly	Whole time (1); part time (2)
Swinton and Pendlebury	Council Offices, Swinton	Wednesday, and Thursday 2—5 Ante-natal Clinic, alternate Tuesdays, 2—5	Whole time (2)
Tyldesley-with-Shakerley	Technical School	Thursday, 3—5 ...	Whole time
Upholland	Nil ... ..	... ..	District Nurse acts as Health Visitor
Waterloo-with-Seaforth...	Town Hall, Waterloo	Wednesday, 10.30—12.30 and 2.30—4.30 Ante-natal Clinic, Wednesday, 10.30—12.30	Whole time
Westhoughton	Wesleyan Hall, Seaforth Sunnybank, Market Street	Monday, 2.30—4.30 Tuesday and Thursday, 2.30—4.30	Whole time (2)
Widnes (B)	Town Hall Cooper Hall Mill Brow Halebank Mill Brow	Consultations. } Treatment Mon., 1.30 } Daily Tues., 1.30 } 9—5 Thurs., 1.30 } Wed., Wed., 2 } 1.30—5 Ante-natal Clinic, 2nd and 4th Wednesday	Seven Health Visitors, who also act as School Nurses

† Transferred to the County Council on 1st April, 1928. ‡ Transferred to the County Council on 1st October, 1927.

ANTE-NATAL WORK BY LOCAL AUTHORITIES.—In 34 of the 43 districts where the Local Health Authorities are responsible for child welfare, ante-natal work is carried out in a greater or lesser degree. Medical Officers of the following districts state that ante-natal clinics are held weekly or at other intervals :—Accrington (B), Brierfield, Chorley (B), Eccles (B), Hindley, Horwich, Lancaster (B), Leigh (B), Radcliffe, Stretford, Swinton and Pendlebury, Waterloo-with-Seaforth, and Widnes (B).

In other areas, it is stated that expectant mothers are encouraged to attend the Child Welfare Centres, or that they are visited in their own homes by the health visitors.

SUPPLY OF MILK AND FOODSTUFFS.—In practically all the districts doing child welfare work, arrangements have been made by which a supply of food and milk for expectant and nursing mothers, and of milk for young children is available in necessitous cases.

MATERNITY HOMES.—Maternity Homes have been established by or with the aid of Local Authorities in the following districts :—Colne (B), opened in February, 1927, 8 beds ; Leigh (B), 5 beds ; Nelson (B), 10 beds ; and Radcliffe, 10 beds. At Lytham Saint Anne's (B) 6 beds are available at the War Memorial hospital ; at Stretford 6 beds are reserved at the Memorial hospital ; and at Widnes (B) a maternity home, 8 beds has been built adjacent to the nurses home. In 19 other districts, it is stated, accommodation for maternity cases is available, if required, at local hospitals, infirmaries and other institutions in neighbouring large towns, or maternity homes in adjoining districts. In other areas the union hospital is the only provision available.

Orthopædic Treatment.—**COUNTY SCHEME.**—**CRIPPLING DEFECTS AND ORTHOPÆDICS.**—The work in dealing with crippled children has undergone a great extension during the year, and the County may now reasonably claim to have in operation one of the most complete and comprehensive schemes in the country for dealing with crippled children. The Biddulph Grange Orthopædic Hospital which has been purchased by the County is now in active operation, and a description of the Hospital appears later in this Report.

A considerable number of Local Authorities within the County have joined the County Council's orthopædic scheme and are intimately associated with the County Council in the work of caring for crippled children.

The treatment of crippling defects is a tedious and protracted process, involving lengthy and expert after-care, without which the necessary initial procedures of the surgeon are either futile or largely wasted in many types of case, and orthopædic surgery is brought into discredit. In treating a crippled child it is essential that the surgeon should not only determine the exact surgical or manipulative measures which are the first step in the process of cure or amelioration, but that he should clearly envisage and mark out the subsequent and remote path by which the patient is to be led to the desired end. In such a long course of treatment it is necessary that a single mind should direct the whole procedure from beginning to end.

As a matter of administration, the treatment of cripples may be arranged in one of two ways. The patient may be kept in a suitable type of hospital for the whole duration of his treatment, often lasting over a term of years ; or after a period in hospital during which any necessary surgical measures are carried out, he may be discharged and kept under expert supervision afterwards. The first is probably the ideal way, but it is generally speaking impracticable and, except for certain types of case, unnecessary. The advantage of the second method, apart from the reduction in cost, is that it enables a much greater number of cases to be dealt with. There is, however, a certain tendency at present to curtail unduly the length of residence in the hospital, which is usually situated in ideal country surroundings, and this tendency should be resisted. In the treatment of crippling, as of many other abnormal conditions, the value of a prolonged stay in a healthy environment, with plenty of sunshine, fresh air, and good food, cannot be exaggerated ; for the crippling conditions caused by tuberculosis and rickets it is indispensable.

These principles are the foundation of the Scheme which the County have put into operation.

A brief description of the Scheme follows :—

For the purpose of the Scheme the County has been divided into two parts, one of which has for its centre the Ancoats Hospital, Manchester, and the other the Royal Liverpool Children's Hospital.

At the centre of the Manchester area stands the Ancoats Hospital, Manchester, with the Biddulph Grange Orthopædic Hospital and the Ethel Hedley Hospital, Windermere, as the Country Hospitals ; round these are arranged peripherally a series of After-Care Centres. Included in the County's arrangements, but not yet articulated with the main scheme, is the Memorial Home for Crippled Children, Bamford, near Rochdale. The Ancoats Hospital is the central clearing station for the whole of this area, although all cases do not necessarily go through the clearing station, if dealt with peripherally at the After-Care Centres.

Mr. Harry Platt, M.D., M.S., F.R.C.S., Orthopædic Surgeon of the Ancoats Hospital, of the Biddulph Grange Orthopædic Hospital, and of the Ethel Hedley Hospital, Windermere, is the Consulting Orthopædic Surgeon. Mr. Platt is ultimately responsible for all treatment. The Junior Orthopædic Surgeons are Mr. E. S. Brentnall, M.B., F.R.C.S., Surgical Registrar of the Orthopædic Department of Ancoats Hospital, Orthopædic Surgeon to the Stockport Infirmary, and Assistant Orthopædic Surgeon of the Biddulph Grange Orthopædic Hospital, and of the Ethel

Hedley Hospital, Windermere ; Mr. H. Poston, M.B., M.Ch., Surgical Registrar, Ancoats Hospital, and Consulting Surgeon, Grangethorpe Hospital, Ministry of Pensions ; and Mr. S. M. Milner, M.B., F.R.C.S. All the operative work is done either by Mr. Platt or by Mr. Brentnall. Dr. W. H. Bateman, Surgeon of the Rochdale Infirmary, is in complete charge of the Memorial Home for Crippled Children at Bamford, and does all the operative work there.

The Orthopædic Department of Ancoats Hospital is very extensive and complete ; every facility exists for diagnosis, treatment, and after-care. The County have taken full advantage of this complete service and have made financial arrangements with the Hospital, which ensure the full use of every facility provided by the Hospital. Thus arrangements have been made for the use of beds, for operations, for X-rays for diagnosis or (where necessary) for treatment, for attendance in the out-patient department for diagnosis or treatment, and for treatment in the massage and remedial exercises department.

The Ethel Hedley Hospital, thoroughly equipped on the most modern lines and substantially supported by Mr. Oswald Hedley, is delightfully situated on the shore of Windermere in the purest of air and the most beautiful surroundings. The County Council have made arrangements for a minimum of one-third of the accommodation. The Ethel Hedley Hospital is recognised by the Board of Education as a Special School and the school expenses are borne on the basis of user by the Lancashire, Westmorland, and Cumberland County Education Committees.

The Memorial Home for Crippled Children at Bamford was built specially for the purpose of an open-air home by Mr. Walter Scott, of Rochdale. It is situated high up on the moors above Rochdale, in a place of wide prospect and bracing air. It also is recognised by the Board of Education as a Special School. Here the County Council have made arrangements for the use of fifteen beds.

The following Local Authorities are now included in this part of the County's Scheme :—

The County Boroughs of Burnley and Wigan, the Municipal Boroughs of Ashton-under-Lyne, Colne, Lancaster, Leigh, Morecambe, and Nelson ; and the Urban Districts of Chadderton, Farnworth, and Radcliffe.

The Urban Districts of Denton, Horwich, Royton and Westhoughton, which are autonomous for Maternity and Child Welfare work, have also joined the County Council's Scheme in respect of their children under school age.

Up to the present, 14 After-Care Centres have been established—At Ashton-under-Lyne, Burnley, Chadderton, Dalton-in-Furness, Horwich, Irlam, Kearsley, Lancaster, Leyland, Nelson, Rishton, Tyldesley, Whitefield, and Wigan. The Ancoats, Ethel Hedley, and Bamford Hospitals act also as After-Care Centres for patients in their neighbourhood. For the purposes of After-Care, two thoroughly trained and experienced After-Care Nurses have been appointed, who are highly expert in plaster and appliance work.

Each of these After-Care Centres, which are held in existing School Clinics, meets once a week, and crippled children in the district served by the Centre are seen by the After-Care Nurse, who adjusts their splints, applies or changes their plasters, gives instruction in remedial exercises, and does whatever else is necessary. Once a month each Centre is visited by the Junior Orthopædic Surgeon in charge of the Centre, who sees all the cases under treatment and who sees all new cases ; on this day also the Assistant County Medical Officer for the district attends for the purpose of conferring with the Junior Orthopædic Surgeon about the cases. The Dalton-in-Furness and the Lancaster Centres are visited by the staff of the Ethel Hedley Hospital, to whom the thanks of the County Council are due. Once a year the Consulting Orthopædic Surgeon, Mr. Platt, sees every case at the Centres.

New cases are ordinarily seen in the first instance in the After-Care Centres by the Junior Orthopædic Surgeon, who decides on the further steps—whether treatment by the After-Care Nurse ; admission to the Biddulph Grange Orthopædic Hospital, or the Ethel Hedley Hospital, Windermere ; reference to the Ancoats Hospital, Manchester, for further examination by X-rays, or for consultation with the Orthopædic Surgeon, Mr. Platt, or for admission and operation. As a rule, only short stay cases are admitted to Ancoats, the long stay cases going to the Biddulph Grange Orthopædic Hospital, or to the Ethel Hedley Hospital, Windermere.

Full clinical notes are kept on each case at the Centres, and copies of the notes made at Ancoats, Biddulph, or Windermere are also sent to the Centres for the use of the Junior Orthopædic Surgeon, the Assistant County Medical Officer, and the After-Care Nurse. There is thus a complete record of each case.

At the centre of the Liverpool part of the Scheme, stands the Royal Liverpool Children's Hospital, with its Central Hospital in Myrtle Street, Liverpool, and its Country Hospital at Heswall.

The County have been most fortunate in securing the services of Sir Robert Jones, Bart., K.B.E., C.B., F.R.C.S., LL.D., D.Sc., probably the most distinguished Orthopædic Surgeon in the world, as its Honorary Orthopædic Surgeon. Sir Robert Jones has taken a most active interest and has given invaluable help, not only in the organisation of the Scheme, but in the actual treatment of the children.

Mr. T. P. McMurray, M.Ch., F.R.C.S., Orthopædic Surgeon of the Royal Liverpool Children's Hospital, Myrtle Street, and Heswall, and of the David Lewis Northern Hospital, Liverpool, is the Consulting Orthopædic Surgeon. Mr. B. L. McFarland, M.D., M.Ch., F.R.C.S., Assistant Orthopædic Surgeon of the Royal Liverpool Children's Hospital, Myrtle Street, and Heswall, is the Junior Orthopædic Surgeon.

The Orthopædic Department of Myrtle Street Children's Hospital offers every facility for diagnosis, treatment and after-care, and the County have taken full advantage of these facilities and make financial arrangements for their full use. The arrangements made are similar to those made with the Ancoats Hospital, Manchester.

The Country Branch of the Royal Liverpool Children's Hospital is beautifully situated in the Wirrall Peninsula, overlooking the estuary of the Dee. Only short-stay cases are admitted to Myrtle Street, the long-stay cases going to the Country Hospital at Heswall. The Heswall Hospital is recognised by the Board of Education as a Special School, so that the education of the children continues while they are undergoing treatment.

The County Boroughs of Blackpool and Preston, and the Borough of Lytham Saint Anne's are, by arrangement, included in this part of the County Council's Scheme.

Up to the present, After-Care Centres for this part of the area have been established in Ashton-in-Makerfield, Fleetwood, Haydock, Litherland, Ormskirk, Prescot and Preston.

For the purposes of after-care in this area a thoroughly trained and experienced After-Care Nurse has been appointed who is highly expert in plaster and appliance work.

Arrangements have been made with the Warrington Board of Guardians for the treatment at the Whitecross Union Hospital of crippled children from the County area adjacent to Warrington. For this purpose, through the kindness of the Guardians of the Warrington Union, their Hospital has been so co-ordinated with the County's Scheme as to form an additional After-Care Centre offering facilities for massage, electrical treatment, and remedial exercises.

All the facilities of the Scheme are equally available for children under school age in those districts of the Administrative County for which the County Council is the Authority under the Maternity and Child Welfare Act.

The independent Local Authorities which have taken advantage of the County Council's Scheme are particularly welcomed. The arrangements that have been made ensure that no distinction is made between County Council and non-County Council cases, and the financial adjustments are on the basis of user.

BIDDULPH GRANGE ORTHOPÆDIC HOSPITAL.—The Biddulph Grange Orthopædic Hospital is situated 28 miles south of Manchester in completely rural surroundings. It is just over the Cheshire boundary, and is about three miles from Congleton Railway Station.

The property consists of a large private mansion standing in beautiful grounds of about 91 acres. It was presented by its owner, Mr. Robert Heath, to a body of Trustees for the purpose of being converted into and utilised as an Orthopædic Hospital. The trustees converted the mansion by interior structural alterations, and by the addition of three large open air wards, into a fully-equipped Orthopædic Hospital, which was opened for use in 1923 by His Royal Highness the Prince of Wales.

When the Trustees found themselves unable to carry on the Hospital any longer, it was purchased by the Lancashire County Council.

The mansion itself forms the administrative block, and in addition to small wards, contains the operating theatre, plaster rooms, gymnasium, X-ray room, light room, and all the other facilities of a modern Hospital for the treatment of cripples.

The large open-air wards, with their necessary dressing-rooms and kitchens, are on a concrete emplacement at one end of the main building, and look down into the beautiful ornamental gardens. These wards contain accommodation for about 65 patients, and the main building contains accommodation for another 20 to 25 beds.

The mansion and wards face due south, the average rainfall is about 36 inches, and there is a large amount of sunshine. The Hospital stands at an elevation of about 500 feet above sea level, and is protected from north and east winds by rising ground and woodlands. It has its own lighting, water and sewage systems. All these, together with the heating arrangements, have been thoroughly modernised by the County Council. The County Council have also installed a modern fully-equipped laundry.

The Surgeons to the Hospital are Mr. Harry Platt and Mr. E. S. Brentnall. There are two resident House Surgeons, of whom one is actually on duty and the second is just about to be appointed. The staff also includes two highly-skilled masseuses and medical gymnasts, and a radiologist.

The operating theatre, plaster rooms, gymnasium, &c., are all equipped with the latest appliances and apparatus for the treatment of crippled children.

The Hospital is recognised by the Board of Education as a Special School, and three teachers have been appointed.

The patients are collected at the Victoria Station, Manchester, each Friday, and are conveyed to Biddulph by the Orthopædic Hospital's own ambulance. Discharged patients are returned to Manchester in the same way, where they are met by their parents or, if necessary, conveyed to their homes by one of the County Health Visitors.

This beautiful Hospital, thoroughly equipped and up-to-date, officered by a highly-skilled staff, surgical nursing and teaching, will enable a large number of crippled children to be treated and restored to usefulness for whom previously there was no accommodation and no chance of treatment.

The following table shows the number of children treated during 1927 :—

	Rochdale Cripple Children's Home.	Ethel Hedley Hospital.	Myrtle Street Hospital.	Ancoats Hospital.	Heswall Hospital.
Inmates, 1st January, 1927	14	18	...	...	13
Admitted during the year	19	42	16	3	40
Discharged during the year	18	40	16	3	37
Remaining on 31st December, 1927 ...	15	20	...	...	16

AFTER-CARE CENTRES.

The following table is a summary of the work done during the year in the After-Care Centres :—

No. of individual children attended	1478
Total No. of attendances made	5929
No. of children referred to Consultant Orthopædic Surgeon at Hospital (Ancoats or Myrtle Street)	125
No. of children recommended operative treatment by Orthopædic Surgeons at Centre or Hospital	229
No. of Plasters made at Centres	87
No. of surgical appliances, e.g., boots, irons, &c., supplied through Centres... ..	547
No. of children given remedial exercises	552
No. of children for whom treatment has been refused by parents or guardians ...	59

The following table shows the defects from which the children seen in the After-Care Centres were suffering :—

Paralysis—		Talipes Equino Valgus	8
Infantile—Upper limb	40	Talipes Equino Calcaneous	1
Lower limb	198	Pes Calcaneous	5
Upper and lower limbs	17	Calcaneo Valgus	1
Spastic—Monoplegia	3	Metatarsus Varus	5
Diplegia	16	Dislocation of Hip	29
Paraplegia	28	Contractions	5
Hemiplegia	49	Depressed Sternum	1
Birth Palsy	45	Syndactylism	2
Pseudo Hypertrophic Muscular		Wedged Vertebra	1
Dystrophy	1	Adduction Fifth Toe	2
Diphtheritic Paralysis	2	Hypospadias	1
Congenital Hemiplegia	2	Supernumerary Digits	1
Little's Disease	2	Deformities, Traumatic—	
Post Scarlatinal Paralysis	1	Phalanx	1
Deformities, Congenital—		Clavicle	1
Torticollis... ..	36	Fractures of Upper and Lower Limbs... ..	47
Cubitus Varus	1	Dislocation of Finger	1
Cervical Rib	1	Subluxations	3
Spina Bifida	4	Sprain	2
Spina Bifida with Club Foot	4	Displaced Epiphysis	1
Achondroplasia	2	Overgrowth of Femur	1
Hydrocephalus	3	Contusions	10
Cleft Palate	3	Cut Tendons	4
Scoliosis	15	Torn Tendons	2
Sprengel's Shoulder	4	Amputations	1
Rudimentary and Malformed limbs ...	7	Obstetric Fracture	1
Rudimentary and malformed ear	1	Coxa Vara	1
Talipes Equino Varus	67	Kohler's Disease	2

Brachial Plexus Injury 1	Toxic Hip 1
Flexion of Fingers 2	Osteomyelitis 12
Vaulhmann's Isehmie Contraction ... 1	Scaphoiditis 1
Deformities, Other—	Muscular Rheumatism 2
Pronated Feet 3	Tuberculosis—
Pes Cavus 25	Active—Knee 1
Pes Varus... .. 2	Hip 1
Pes Planus 126	Ankle 1
Spasmodic Flat Foot 1	Os Calcis 1
Claw Feet... .. 2	Spine 2
Hallux Valgus 5	Old—Knee 3
Scoliosis 24	Spine 9
Kyphosis 83	Hip 8
Lordosis 9	Shoulder 1
Synostosis Radius and Ulna 1	Wrist 1
Pseudo Coxalgia 3	Tumours—
Genu Recurvatum 1	Exostosis—Multiple 4
Hammer Toes 6	Upper Limb 1
Hallux Rigidus 1	Lower Limb 1
Birth Fracture 1	Ganglion 4
Ankylosis of Jaw 1	Hæmatoma of Sterno Mastoid ... 1
Rickets—	Fibroma 1
Genu Varum 93	Chondroma 1
Genu Valgum 97	Lipoma 2
Genu Varum and Coxa Vara 7	Cyst 5
Generalised 39	Cyst Dermoid 1
Acute 16	Unclassified 14
Delayed (Dwarf) 4	Nervous Diseases—
Inflammations—	Mental Deficiency 8
Epiphysitis of Knee 1	Encephalitis Lethargica... .. 1
Arthritis 4	Posterior Encephalitis 1
Arthritis, Suppurative 5	Ataxia 1
Arthritis, Infective 8	Miscellaneous—
Periostitis and Osteitis 4	Keloid Axilla 1
Synovitis 12	Keloid Hand 1
Apophysitis 1	General Muscular Hypotonia ... 1
Bursitis 5	Nævus 1
Abscess Inguinal 1	Hemihypertrophy 1
Abscess 1	Malnutrition 1
Perthe's Disease 4	Unclassified 87
Pyæmia 1	
Schlatter's Disease 1	
Septicæmia 1	
	Total 1478

The following table shows concisely the work done during the year in the Hospitals with which the County has arrangements :—

Defect.	No. of Cases treated.	Cured.	Im- proved.	Im- proving.	Died.	Refused Treat- ment.	Station- ary.
Infantile Paralysis	27	...	23	2	1	...	1
Spastic Paralysis	9	...	7	2	...	...	...
Birth Palsy	1	...	1	...	...	...	...
Deformities—							
Congenital	24	8	13	1	...	2	...
Traumatic	6	4	2	...	...	...	...
Other	8	3	5	...	...	...	...
Rickets	58	34	7	15	...	1	1
Inflammations—							
Arthritis	3	...	3	...	...	...	...
Ankylosis	1	...	1	...	...	...	...
Osteomyelitis	4	...	4	...	...	...	...
Tumours—							
Sarcoma ... ..	...	...	...	...	...	...	...
Exostosis	2	...	1	...	...	1	...
Chondroma	1	...	...	...	...	1	...
Pyæmia	1	...	1	...	...	...	...
Totals	145	49	68	20	1	5	2

At the 31st December, 1927, some of the above patients were still resident in Hospital.

LOCAL ORTHOPÆDIC SCHEMES.—In the reports of districts not covered by the County Council orthopædic scheme, references are made to local arrangements for orthopædic treatment:—Chorley (B), arrangements completed in 1927; Haslingden (B), Greenfield orthopædic centre; Heywood (B), through local voluntary committee; Swinton and Pendlebury, clinic held four times weekly; and Widnes (B), centre established at Mill Brow, with subsidiary clinic at the Town Hall. For the following districts arrangements have been made with the County Council for participation in the County scheme:—Ashton-under-Lyne (B), Chadderton, Colne (B), Denton, Farnworth, Horwich, Lancaster (B), Leigh (B), Lytham Saint Anne's (B), Morecambe (B), Nelson (B), Radcliffe, Royton and Westhoughton (1928). The following districts have the question of orthopædic treatment under consideration:—Atherton, Clitheroe (B) and Hindley. A number of districts state they have facilities for treatment at institutions outside their area.

SHOPS ACTS.

The Shops Acts, 1912-1921.—During 1927 two Orders under these Acts were made by the County Council fixing the day of the weekly half-holiday. A Certificate of Exemption from the provisions of the Shops Act, 1912, was also granted to a trades exhibition. In the area under the jurisdiction of the County Council for Shops Acts purposes there are now in operation 150 general closing, weekly half-holiday, or other Orders.

Legal proceedings were instituted by the County Council in 1927, in 20 instances, and fines were inflicted or orders made to pay costs in each case. Ten other offenders were cautioned.

The Shops (Hours of Closing) Act, 1928.—This Act, which was passed on the 3rd August, 1928 gives effect (with modifications) to the Report of the Departmental Committee on the Shops (Early Closing) Acts, 1920, and 1921, who recommended that the principle of compulsory general closing of shops should be embodied in permanent legislation and the existing closing hours continued with certain modifications.

BLIND PERSONS ACT.

Blind Persons Act, 1920.—This Act empowers County Councils and County Borough Councils to make arrangements for promoting the welfare of the blind persons resident in their area, and such Councils may for this purpose provide and maintain or contribute towards the provision and maintenance of Societies and Workshops for the Blind.

The Lancashire County Council has imposed the administration of the Act upon the Public Health and Housing Committee, and the latter has entrusted the duty of preparing and carrying out the Scheme to its Maternity and Child Welfare Sub-Committee.

The expenses incurred by the County Council under the Blind Persons Act are defrayed out of the County Fund as expenses for general purposes.

As a result of a census which has been taken, it has been found that there are 1,669 blind persons in the Administrative County Area.

A report, both for administrative and medical purposes, has been made on each blind person by either the Assistant County Medical Officers or the Local Medical Officers of Health.

The Administrative County Area has been divided up into what are termed "Workshop Areas," and arrangements have been made with Voluntary Agencies to supervise the blind persons in these various areas. The names of the Voluntary Agencies are as follows:—

- Accrington Workshops for the Blind.
- Ashton, Stalybridge, Dukinfield and District Home Teaching Society for the Blind.
- Barrow and District Society for the Blind.
- Blackburn Workshops for the Blind.
- Blackburn and Darwen Society for the Blind.
- Blackpool and Fylde Society for the Blind.
- Bolton Workshops for the Blind.
- Burnley and District Society for the Blind.
- Burnley Workshops for the Blind.
- Colne Blind Prevention and Aid Society.
- Fulwood (Preston) Workshops for the Blind.
- Liverpool Workshops for the Blind.
- Manchester, Henshaw's Institution for the Blind.
- Manchester and Salford Blind Aid Society.
- Oldham (Men's) Workshops for the Blind.
- Oldham Home Teaching Society, Werneth.
- Rossendale Society for the Blind.
- Rochdale and District Society for Visiting and Instructing the Blind.
- St. Helens Society for the Welfare of the Blind.
- Warrington and District Society for the Blind.
- Wigan Workshops for the Blind.

Grants to the foregoing Workshops and Societies are paid on the following basis :—

£20 per annum per workshop employee.

£20 per annum per Home Worker.

£78 per annum per Home Teacher employed wholly in visiting County cases.

In addition to the above-mentioned grants, an annual contribution is made to each Workshop or Society for non-specific services ; for example, for the help which they give to the non-employable blind and for their general expenses.

There are 68 Workshop Employees, 57 Home Workers, and 30 Home Teachers in respect of whom the Lancashire County Council pays grant.

In addition to the ordinary Voluntary Agencies the Lancashire County Council also makes a contribution to the Northern Branch of the National Library for the Blind.

The Blind Persons Act does not relieve Boards of Guardians of any of their responsibilities under the Poor Law Acts.

The Blind Persons Act does not interfere with the duties of Education Authorities under Part V of the Education Act, 1921. Both Acts are administered by the same department of the County Council, and, in addition, the same Department is responsible for the higher education and training of the blind. This arrangement has been found very advantageous in many ways, as one Department has the administrative supervision of every class of the blind who can be dealt with by the County Council.

District Health Reports for 1927.—The Ministry of Health Circular 834 to local Medical Officers of Health, respecting their annual reports has been referred to on page 7. From every County district the Summary Form prepared in the County Public Health Department has been received, but some did not come to hand until July and early August. A number of the local health reports have again been unduly delayed, and at the time of writing (August 25th, 1928) nine reports have not yet been supplied. The Ministry Circular requested that the local health reports for 1927 be transmitted to the Ministry and to the County Council not later than the middle of May.

I conclude my report for the year 1927 by again expressing to the district Medical Officers of Health and the local Sanitary Staffs my sincere appreciation for much assistance and co-operation, in carrying out the public health work of the County. I also thank them for supplying many returns and statistics outside their statutory obligations.

I have the honour to be, Ladies and Gentlemen,

Yours obediently,

J. J. BUTTERWORTH,

County Medical Officer of Health.

Public Health Department,

County Offices, Preston.

August, 1928.

ADMINISTRATIVE COUNTY OF LANCASTER.

BIRTH AND DEATH RATES

OF THE

BOROUGHES, URBAN AND RURAL DISTRICTS

FOR THE YEAR 1927,

COMPARED WITH THE RATES FOR THE YEAR 1926, AND WITH THE
AVERAGES FOR THE FIVE YEARS 1922-1926.

BOROUGH AND URBAN DISTRICTS.

PER 1,000 OF POPULATION.

Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	Rate of Deaths from under 1 year to 1,000 Births.
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Abram.—

Population, 6,631.

Mean of 5 years—

1922–1926.....	16·8	11·5	0·72	113
----------------	------	------	------	-----

Year—

1926	16·3	9·9	0·76	130
1927	15·6	13·5	0·60	86

Increase or decrease
in 1927 on—

5 years' average,

1922–1926.....	–1·2	+2·0	–0·12	–27
----------------	------	------	-------	-----

Previous year ...	–0·7	+3·6	–0·16	–44
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Accrington (Borough).—

Population, 43,080.

Mean of 5 years—

1922–1926.....	13·9	13·2	0·72	72
----------------	------	------	------	----

Year—

1926	13·1	13·1	0·78	75
1927	13·2	14·6	0·53	61

Increase or decrease
in 1927 on—

5 years' average,

1922–1926.....	–0·7	+1·4	–0·19	–11
----------------	------	------	-------	-----

Previous year ...	+0·1	+1·5	–0·25	–14
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Adlington.—

Population, 4,428.

Mean of 5 years—

1922–1926.....	19·4	11·5	0·66	72
----------------	------	------	------	----

Year—

1926	18·6	11·4	0·89	48
1927	12·4	12·8	0·45	72

Increase or decrease
in 1927 on—

5 years' average,

1922–1926.....	–7·0	+1·3	–0·21	nil.
----------------	------	------	-------	------

Previous year ...	–6·2	+1·4	–0·44	+24
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Ashton-in-Makerfield.—

Population, 24,620.

Mean of 5 years—

1922–1926.....	19·7	11·0	0·62	88
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Year—

1926	16·6	9·0	0·48	69
1927	14·3	10·2	0·48	76

Increase or decrease
in 1927 on—

5 years' average,

1922–1926.....	–5·4	–0·8	–0·14	–12
----------------	------	------	-------	-----

Previous year ...	–2·3	+1·2	nil.	+7
-------------------	------	------	------	----

PER 1,000 OF POPULATION.

Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	Rate of Deaths from under 1 year to 1,000 Births.
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Ashton-under-Lyne (Borough).—

Population, 50,850.

Mean of 5 years—

1922–1926.....	17·3	13·9	0·88	88
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Year—

1926	16·0	14·3	1·01	98
1927	14·3	13·2	0·74	90

Increase or decrease
in 1927 on—

5 years' average,

1922–1926.....	–3·0	–0·7	–0·14	+2
----------------	------	------	-------	----

Previous year ...	–1·7	–1·1	–0·27	–8
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Aspull.—

Population, 7,544.

Mean of 5 years—

1922–1926.....	21·6	13·7	0·57	106
----------------	------	------	------	-----

Year—

1926	21·2	13·9	1·03	121
1927	19·6	14·9	0·79	128

Increase or decrease
in 1927 on—

5 years' average,

1922–1926.....	–2·0	+1·2	+0·22	+22
----------------	------	------	-------	-----

Previous year ...	–1·6	+1·0	–0·24	+7
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Atherton.—

Population, 20,370.

Mean of 5 years—

1922–1926.....	17·5	11·3	0·63	75
----------------	------	------	------	----

Year—

1926	16·3	10·7	0·29	66
1927	15·3	10·6	0·73	48

Increase or decrease
in 1927 on—

5 years' average,

1922–1926.....	–2·2	–0·7	+0·10	–27
----------------	------	------	-------	-----

Previous year ...	–1·0	–0·1	+0·44	–18
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Audenshaw.—

Population, 8,338.

Mean of 5 years—

1922–1926.....	16·3	12·1	0·57	78
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Year—

1926	15·4	12·8	0·35	69
1927	14·9	11·2	0·11	88

Increase or decrease
in 1927 on—

5 years' average,

1922–1926.....	–1·4	–0·9	–0·46	+10
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Previous year ...	–0·5	–1·6	–0·24	+19
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	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
Bacup (Borough).—				
Population, 20,500.				
<i>Mean of 5 years—</i>				
1922–1926.....	17·2	14·6	0·68	85
<i>Year—</i>				
1926	17·0	14·1	0·68	76
1927	15·1	18·4	0·73	93
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	–2·1	+3·8	+0·05	+8
<i>Previous year ...</i>	<i>–1·9</i>	<i>+4·3</i>	<i>+0·05</i>	<i>+17</i>

Barrowford.—				
Population, 5,659.				
<i>Mean of 5 years—</i>				
1922–1926.....	13·4	13·2	0·63	99
<i>Year—</i>				
1926	14·9	14·4	0·18	72
1927	12·3	12·0	0·35	57
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	–1·1	–1·2	–0·28	–42
Previous year ...	–2·6	–2·4	+0·17	–15

Billinge-and-Winstanley.—				
Population, 5,312.				
<i>Mean of 5 years—</i>				
1922–1926.....	16·1	12·3	0·68	115
<i>Year—</i>				
1926	16·6	12·2	0·38	58
1927	13·1	9·0	0·37	71
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	–3·0	–3·3	–0·31	–44
Previous year ...	–3·5	–3·2	–0·01	+13

Blackrod.—				
Population, 3,915.				
<i>Mean of 5 years—</i>				
1922–1926.....	20·4	11·4	0·30	114
<i>Year—</i>				
1926	23·8	13·4	0·25	152
1927	15·5	13·5	nil.	81
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	–4·9	+2·1	–0·30	–33
Previous year ...	–8·3	+0·1	–0·25	–71

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
Brierfield.—				
Population, 8,281.				
<i>Mean of 5 years—</i>				
1922–1926.....	12·6	11·7	0·49	106
<i>Year—</i>				
1926	11·5	10·3	nil.	93
1927	8·8	14·4	0·84	41
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	–3·8	+2·7	+0·35	–65
<i>Previous year ...</i>	–2·7	+4·1	+0·84	–52

Carnforth.—				
Population, 3,221.				
<i>Mean of 5 years—</i>				
1922–1926.....	20·0	12·2	0·48	80
<i>Year—</i>				
1926	17·3	10·4	0·63	36
1927	15·2	10·2	0·93	40
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	–4·8	–2·0	+0·45	–40
Previous year ...	–2·1	–0·2	+0·30	+4

Chadderton.—				
Population, 27,380.				
<i>Mean of 5 years—</i>				
1922–1926.....	15·9	12·9	0·72	99
<i>Year—</i>				
1926	13·4	14·0	0·64	134
1927	15·7	13·9	0·84	92
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	–0·2	+1·0	+0·12	–7
Previous year ...	+2·3	–0·1	+0·20	–42

Chorley (Borough).—				
Population, 31,160.				
<i>Mean of 5 years—</i>				
1922–1926.....	17·5	12·2	0·59	99
<i>Year—</i>				
1926	16·4	11·0	0·54	77
1927	16·4	12·7	0·48	81
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	–1·1	+0·5	–0·11	–18
Previous year ...	nil.	+1·7	–0·06	+4

PER 1,000 OF POPULATION.

Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	Rate of Deaths under 1 year to 1,000 Births.
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Church.—

Population, 6,647.

Mean of 5 years—

1922-1926.....	16.5	13.7	0.69	101
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Year—

1926	14.4	11.7	0.75	104
1927	12.6	13.5	0.90	83

Increase or decrease in 1927 on—

5 years' average,

1922-1926.....	-3.9	-0.2	+0.21	-18
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Previous year ...	-1.8	+1.8	+0.15	-21
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Clayton-le-Moors.—

Population, 8,399.

Mean of 5 years—

1922-1926.....	15.8	12.1	0.61	72
----------------	------	------	------	----

Year—

1926	13.2	9.6	0.82	44
1927	11.9	15.4	0.35	80

Increase or decrease in 1927 on—

5 years' average,

1922-1926.....	-3.9	+3.3	-0.26	+8
----------------	------	------	-------	----

Previous year ...	-1.3	+5.8	-0.47	+36
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Clitheroe (Borough).—

Population, 11,960.

Mean of 5 years—

1922-1926.....	13.4	12.5	0.61	66
----------------	------	------	------	----

Year—

1926	13.3	11.9	0.40	49
1927	12.8	15.7	0.83	38

Increase or decrease in 1927 on—

5 years' average,

1922-1926.....	-0.6	+3.2	+0.22	-28
----------------	------	------	-------	-----

Previous year ...	-0.5	+3.8	+0.43	-11
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Colne (Borough).—

Population, 24,960.

Mean of 5 years—

1922-1926.....	14.4	12.3	0.79	98
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Year—

1926	12.0	10.2	0.47	72
1927	11.9	14.9	0.72	114

Increase or decrease in 1927 on—

5 years' average,

1922-1926.....	-2.5	+2.6	-0.07	+16
----------------	------	------	-------	-----

Previous year ...	-0.1	+4.7	+0.25	+42
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PER 1,000 OF POPULATION.

Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	Rate of Deaths under 1 year to 1,000 Births.
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Crompton.—

Population, 14,890.

Mean of 5 years—

1922-1926.....	15.6	14.2	0.83	100
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Year—

1926	13.9	13.0	0.73	86
1927	14.9	13.8	0.33	58

Increase or decrease in 1927 on—

5 years' average,

1922-1926.....	-0.7	-0.4	-0.50	-42
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Previous year ...	+1.0	+0.8	-0.40	-28
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Croston.—

Population, 1,948.

Mean of 5 years—

1922-1926.....	16.1	13.7	0.10	86
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Year—

1926	14.3	11.2	nil.	142
1927	15.4	17.4	0.51	100

Increase or decrease in 1927 on—

5 years' average,

1922-1926.....	-0.7	+3.7	+0.41	+14
----------------	------	------	-------	-----

Previous year ...	+1.1	+6.2	+0.51	-42
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Dalton-in-Furness.—

Population, 11,030.

Mean of 5 years—

1922-1926.....	18.9	13.4	1.13	78
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Year—

1926	17.5	14.9	1.07	86
1927	15.4	16.2	1.54	58

Increase or decrease in 1927 on—

5 years' average,

1922-1926.....	-3.5	+2.8	+0.41	-20
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Previous year ...	-2.1	+1.3	+0.47	-28
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Darwen (Borough).—

Population, 38,630.

Mean of 5 years—

1922-1926.....	15.3	13.6	0.49	84
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Year—

1926	13.8	11.1	0.28	75
1927	11.9	15.0	0.33	69

Increase or decrease in 1927 on—

5 years' average,

1922-1926.....	-3.4	+1.4	-0.16	-15
----------------	------	------	-------	-----

Previous year ...	-1.9	+3.9	+0.05	-6
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	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
Denton.—				
Population, 17,010.				
<i>Mean of 5 years—</i>				
1922–1926.....	15·4	12·4	0·71	99
<i>Year—</i>				
1926	13·5	13·9	0·75	103
1927	12·4	11·4	0·64	89

Increase or decrease in 1927 on—

5 years' average,

1922–1926.....	–3·0	–1·0	–0·07	–10
Previous year ...	–1·1	–2·5	–0·11	–14

Droylsden.—

Population, 13,800.				
<i>Mean of 5 years—</i>				
1922–1926.....	19·4	12·8	0·87	85
<i>Year—</i>				
1926	20·1	14·1	1·19	85
1927	15·6	12·6	0·36	83

Increase or decrease in 1927 on—

5 years' average,

1922–1926.....	–3·8	–0·2	–0·51	–2
Previous year ...	–4·5	–1·5	–0·83	–2

Eccles (Borough).—

Population, 45,390.				
<i>Mean of 5 years—</i>				
1922–1926.....	17·2	11·6	0·86	76
<i>Year—</i>				
1926	17·0	11·5	0·72	78
1927	15·6	12·7	0·92	60

Increase or decrease in 1927 on—

5 years' average,

1922–1926.....	–1·6	+1·1	+0·06	–16
Previous year ...	–1·4	+1·2	+0·20	–18

Failsworth.—

Population, 16,640.				
<i>Mean of 5 years—</i>				
1922–1926.....	16·6	12·1	0·93	78
<i>Year—</i>				
1926	16·3	11·9	0·65	95
1927	13·8	11·1	0·72	78

Increase or decrease in 1927 on—

5 years' average,

1922–1926.....	–2·8	–1·0	–0·21	nil.
Previous year ...	–2·5	–0·8	+0·07	–17

Farnworth.—

Population, 29,450.				
<i>Mean of 5 years—</i>				
1922–1926.....	17·2	11·9	0·76	83
<i>Year—</i>				
1926	15·0	11·2	0·62	96
1927	16·4	12·5	0·74	78

Increase or decrease in 1927 on—

5 years' average,

1922–1926.....	–0·8	+0·6	–0·02	–5
Previous year ...	+1·4	+1·3	+0·12	–18

Fleetwood.—

Population, 23,090.				
<i>Mean of 5 years—</i>				
1922–1926.....	21·7	11·5	0·81	82
<i>Year—</i>				
1926	21·9	11·4	0·68	73
1927	19·6	11·3	0·86	110

Increase or decrease in 1927 on—

5 years' average,

1922–1926.....	–2·1	–0·2	+0·05	+28
Previous year ...	–2·3	–0·1	+0·18	+37

Formby.—

Population, 7,149.				
<i>Mean of 5 years—</i>				
1922–1926.....	13·1	10·3	0·75	40
<i>Year—</i>				
1926	13·2	10·0	0·97	31
1927	16·5	8·6	0·40	40

Increase or decrease in 1927 on—

5 years' average,

1922–1926.....	+3·4	–1·7	–0·35	nil.
Previous year ...	+3·3	–1·4	–0·57	+9

Fulwood.—

Population—				
For Birth-rate, 7,042.				
For Death-rate, 6,582.				
<i>Mean of 5 years—</i>				
1922–1926.....	9·8	13·5	0·48	56
<i>Year—</i>				
1926	10·3	12·7	0·78	98
1927	8·5	12·0	0·30	100

Increase or decrease in 1927 on—

5 years' average,

1922–1926.....	–1·3	–1·5	–0·18	+44
Previous year ...	–1·8	–0·7	–0·48	+2

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
Golborne.—				
Population, 7,512.				
<i>Mean of 5 years—</i>				
1922–1926.....	21·7	11·4	0·93	67
<i>Year—</i>				
1926	22·7	11·7	1·48	59
1927	17·7	8·7	0·13	52
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	—4·0	—2·7	—0·80	—15
<i>Previous year</i> ...	—5·0	—3·0	—1·35	—7

Grange-over-Sands.—				
Population, 2,242.				
<i>Mean of 5 years—</i>				
1922-1926.....	8·9	13·5	0·67	31
<i>Year—</i>				
1926	7·8	10·6	0·92	nil.
1927	8·4	14·2	0·89	nil.
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922-1926.....	-0·5	+0·7	+0·22	-31
Previous year ...	+0·6	+3·6	-0·03	nil.

Great Crosby.—				
Population, 15,410.				
<i>Mean of 5 years—</i>				
1922-1926.....	14·3	11·4	0·83	69
<i>Year—</i>				
1926	13·1	11·3	0·94	72
1927	13·0	9·9	0·45	39
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922-1926.....	-1·3	-1·5	-0·38	-30
Previous year ...	-0·1	-1·4	-0·49	-33

Great Harwood.—				
Population, 13,700.				
<i>Mean of 5 years—</i>				
1922-1926.....	15·3	12·1	0·51	80
<i>Year—</i>				
1926	13·7	11·5	0·58	58
1927	11·1	11·9	0·51	91
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922-1926.....	-4·2	-0·2	nil.	+11
Previous year ...	-2·6	+0·4	-0·07	+33

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
Haslingden (Borough).—				
Population, 17,120.				
<i>Mean of 5 years—</i>				
1922–1926.....	12·8	13·8	0·66	76
<i>Year—</i>				
1926	12·7	13·5	0·81	77
1927	12·2	15·1	0·29	76
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
. 1922–1926.....	–0·6	+1·3	–0·37	nil.
<i>Previous year ...</i>	–0·5	+1·6	–0·52	–1

Haydock.—				
Population, 11,400.				
<i>Mean of 5 years—</i>				
1922-1926.....	24·8	10·9	0·56	92
<i>Year—</i>				
1926	24·5	11·7	nil.	105
1927	19·2	12·1	0·17	113
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922-1926.....	-5·6	+1·2	-0·39	+21
Previous year ...	-5·3	+0·4	+0·17	+8

Heysham.—				
Population, 5,743.				
<i>Mean of 5 years—</i>				
1922-1926.....	11·2	15·1	0·49	51
<i>Year—</i>				
1926	11·0	12·5	0·54	65
1927	12·3	17·2	0·52	56
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922-1926.....	+1·1	+2·1	+0·03	+5
Previous year ...	+1·3	+4·7	+0·02	-9

Heywood (Borough).—				
Population, 25,550.				
<i>Mean of 5 years—</i>				
1922-1926.....	16·4	15·6	0·83	89
<i>Year—</i>				
1926	15·1	15·1	0·69	68
1927	15·6	14·7	0·54	62
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922-1926.....	-0·8	-0·9	-0·29	-27
Previous year ...	+0·5	-0·4	-0·15	-6

PER 1,000 OF POPULATION.

Birth rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	Rate of Deaths under 1 year to 1,000 Births.
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Hindley.—

Population, 24,840.

Mean of 5 years—

1922–1926..... 18·8 13·2 0·76 107

Year—

1926 15·1 12·4 0·96 138

1927 15·5 11·1 0·52 64

*Increase or decrease in 1927 on—**5 years' average,*

1922–1926..... –3·3 –2·1 –0·24 –43

Previous year ... +0·4 –1·3 –0·44 –74**Horwich.—**

Population, 16,440.

Mean of 5 years—

1922–1926..... 16·2 11·1 0·73 73

Year—

1926 16·5 12·0 0·99 63

1927 14·3 13·5 1·15 63

*Increase or decrease in 1927 on—**5 years' average,*

1922–1926..... –1·9 +2·4 +0·42 –10

Previous year ... –2·2 +1·5 +0·16 nil.**Huyton-with-Roby.—**

Population, 5,255.

Mean of 5 years—

1922–1926..... 14·6 9·3 0·75 47

Year—

1926 14·1 8·6 0·75 26

1927 9·7 12·5 0·38 176

*Increase or decrease in 1927 on—**5 years' average,*

1922–1926..... –4·9 +3·2 –0·37 +129

Previous year ... –4·4 +3·9 –0·37 +150**Ince-in-Makerfield.—**

Population, 24,020.

Mean of 5 years—

1922–1926..... 22·7 13·6 0·68 124

Year—

1926 23·0 13·2 0·61 125

1927 19·4 12·9 0·99 105

*Increase or decrease in 1927 on—**5 years' average,*

1922–1926..... –3·3 –0·7 +0·31 –19

Previous year ... –3·6 –0·3 +0·38 –20

PER 1,000 OF POPULATION.

Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	Rate of Deaths under 1 year to 1,000 Births.
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Irlam.—

Population, 11,790.

Mean of 5 years—

1922–1926..... 23·0 9·1 0·53 61

Year—

1926 19·3 8·8 0·48 79

1927 18·2 9·9 0·84 97

*Increase or decrease in 1927 on—**5 years' average,*

1922–1926..... –4·8 +0·8 +0·31 +36

Previous year ... –1·1 +1·1 +0·36 +18**Kearsley.—**

Population, 10,460.

Mean of 5 years—

1922–1926..... 17·5 11·6 0·83 85

Year—

1926 17·6 11·0 0·75 96

1927 12·9 10·9 0·76 66

*Increase or decrease in 1927 on—**5 years' average,*

1922–1926..... –4·6 –0·7 –0·07 –19

Previous year ... –4·7 –0·1 +0·01 –30**Kirkham.—**

Population, 3,974.

Mean of 5 years—

1922–1926..... 20·3 16·3 0·67 110

Year—

1926 18·0 14·5 0·53 104

1927 18·8 14·5 1·00 93

*Increase or decrease in 1927 on—**5 years' average,*

1922–1926..... –1·5 –1·8 +0·33 –17

Previous year ... +0·8 nil. +0·47 –11**Lancaster (Borough).—**

Population—

For Birth-rate, 41,160.

For Death-rate, 40,930.

Mean of 5 years—

1922–1926..... 16·6 13·1 0·97 77

Year—

1926 16·8 11·8 0·70 63

1927 15·7 13·6 0·87 77

*Increase or decrease in 1927 on—**5 years' average,*

1922–1926..... –0·9 +0·5 –0·10 nil.

Previous year ... –1·1 +1·8 +0·17 +14

PER 1,000 OF POPULATION.

Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	Rate of Deaths under 1 year to 1,000 Births.
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Lathom and Burscough.—

Population.

For Birth-rate, 8,141.

For Death-rate, 8,071.

Mean of 5 years—

1922-1926..... 17·3 11·0 0·56 85

Year—

1926 15·5 10·7 0·63 98

1927 13·6 12·6 0·37 45

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926..... -3·7 +1·6 -0·19 -40

Previous year ... -1·9 +1·9 -0·26 -53

Lees.—

Population, 4,759.

Mean of 5 years—

1922-1926..... 16·7 13·4 0·66 77

Year—

1926 15·9 14·6 1·46 26

1927 11·9 14·2 0·63 35

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926..... -4·8 +0·8 -0·03 -42

Previous year ... -4·0 -0·4 -0·83 +9

Leigh (Borough).—

Population, 46,260.

Mean of 5 years—

1922-1926..... 18·3 13·1 0·87 88

Year—

1926 17·2 13·2 0·76 84

1927 15·3 12·7 0·75 72

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926..... -3·0 -0·4 -0·12 -16

Previous year ... -1·9 -0·5 -0·01 -12

Leyland.—

Population, 9,843.

Mean of 5 years—

1922-1926..... 16·1 12·1 0·50 70

Year—

1926 16·2 9·9 0·31 19

1927 13·3 14·3 0·60 114

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926..... -2·8 +2·2 +0·10 +44

Previous year ... -2·9 +4·4 +0·29 +95

PER 1,000 OF POPULATION.

Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	Rate of Deaths under 1 year to 1,000 Births.
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Litherland.—

Population, 16,730.

Mean of 5 years—

1922-1926..... 22·1 11·5 1·11 78

Year—

1926 21·1 9·9 1·00 53

1927 17·9 10·8 1·07 79

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926..... -4·2 -0·7 -0·04 +1

Previous year ... -3·2 +0·9 +0·07 +26

Littleborough.—

Population, 11,290.

Mean of 5 years—

1922-1926..... 16·5 15·7 0·55 88

Year—

1926 15·9 16·2 0·35 88

1927 15·6 13·9 0·26 67

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926..... -0·9 -1·8 -0·29 -21

Previous year ... -0·3 -2·3 -0·09 -21

Little Crosby.—

Population, 1,316.

Mean of 5 years—

1922-1926..... 12·1 6·3 0·17 nil.

Year—

1926 7·6 6·8 nil. nil.

1927 9·1 9·1 1·51 nil.

Increase or decrease in 1927 on—5 years' average,*

1922-1926..... -3·0 +2·8 +1·34 nil.

Previous year ... +1·5 +2·3 +1·51 nil.

Little Hulton.—

Population, 7,949.

Mean of 5 years—

1922-1926..... 16·3 10·8 0·38 86

Year—

1926 14·2 11·2 0·37 61

1927 11·9 10·8 0·88 115

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926..... -4·4 nil. +0·50 +29

Previous year ... -2·3 -0·4 +0·51 +54

PER 1,000 OF POPULATION.

Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	Rate of Deaths under 1 year to 1,000 Births.
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Little Lever.—

Population, 5,126.

Mean of 5 years—

1922–1926..... 16·2 13·3 0·43 134

Year—

1926 13·9 13·7 0·77 111

1927 12·8 10·9 0·39 60

*Increase or decrease in 1927 on—**5 years' average,*

1922–1926..... –3·4 –2·4 –0·04 –74

Previous year ... –1·1 –2·8 –0·38 –51**Longridge.—**

Population, 4,174.

Mean of 5 years—

1922–1926..... 16·4 14·4 0·55 83

Year—

1926 17·1 13·7 0·48 112

1927 15·0 15·8 0·71 63

*Increase or decrease in 1927 on—**5 years' average,*

1922–1926..... –1·4 +1·4 +0·16 –20

Previous year ... –2·1 +2·1 +0·23 –49**Lytham Saint Anne's (Borough).—**

Population, 24,500.

Mean of 5 years—

1922–1926..... 11·5 13·4 0·44 55

Year—

1926 10·9 13·7 0·54 57

1927 10·0 13·7 0·53 56

*Increase or decrease in 1927 on—**5 years' average,*

1922–1926..... –1·5 +0·3 +0·09 +1

Previous year ... –0·9 nil. –0·01 –1**Middleton (Borough).—**

Population, 28,910.

Mean of 5 years—

1922–1926..... 15·2 12·9 0·69 70

Year—

1926 15·3 12·6 0·74 57

1927 14·2 13·0 0·41 63

*Increase or decrease in 1927 on—**5 years' average,*

1922–1926..... –1·0 +0·1 –0·28 –7

Previous year ... –1·1 +0·4 –0·33 +6

PER 1,000 OF POPULATION.

Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	Rate of Deaths under 1 year to 1,000 Births.
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Milnrow.—

Population, 8,704.

Mean of 5 years—

1922–1926..... 13·8 15·6 0·71 116

Year—

1926 14·4 15·6 0·80 119

1927 12·6 13·3 0·91 100

*Increase or decrease in 1927 on—**5 years' average,*

1922–1926..... –1·2 –2·3 +0·20 –16

Previous year ... –1·8 –2·3 +0·11 –19**Morecambe (Borough).—**

Population, 15,240.

Mean of 5 years—

1922–1926..... 12·6 15·1 0·84 65

Year—

1926 10·2 12·6 0·73 45

1927 10·9 14·3 0·98 65

*Increase or decrease in 1927 on—**5 years' average,*

1922–1926..... –1·7 –0·8 +0·14 nil.

Previous year ... +0·7 +1·7 +0·25 +20**Mossley (Borough).—**

Population, 11,950.

Mean of 5 years—

1922–1926..... 14·6 13·9 0·80 67

Year—

1926 13·9 16·0 0·58 77

1927 12·8 13·3 0·41 38

*Increase or decrease in 1927 on—**5 years' average,*

1922–1926..... –1·8 –0·6 –0·39 –29

Previous year ... –1·1 –2·7 –0·17 –39**Nelson (Borough).—**

Population, 39,810.

Mean of 5 years—

1922–1926..... 12·6 12·1 0·57 75

Year—

1926 12·0 11·8 0·72 56

1927 11·0 12·9 0·40 57

*Increase or decrease in 1927 on—**5 years' average,*

1922–1926..... –1·6 +0·8 –0·17 –18

Previous year ... –1·0 +1·1 –0·32 +1

PER 1,000 OF POPULATION.
 Birth-rate. Death-rate from Rate of
 Tuberculosis of Deaths
 Respiratory under 1
 System. year to
 1,000
 Births.

Newton-in-Makerfield.—

Population, 20,100.

Mean of 5 years—

1922–1926..... 19·9 10·9 0·77 78

Year—

1926 18·7 10·2 0·85 74

1927 16·8 10·3 0·69 50

*Increase or decrease
in 1927 on—**5 years' average,*

1922–1926..... –3·1 –0·6 –0·08 –28

Previous year ... –1·9 +0·1 –0·16 –24**Norden.—**

Population, 4,284.

Mean of 5 years—

1922–1926..... 13·3 12·1 0·42 61

Year—

1926 13·1 11·3 0·47 17

1927 11·9 12·3 0·70 58

*Increase or decrease
in 1927 on—**5 years' average,*

1922–1926..... –1·4 +0·2 +0·28 –3

Previous year ... –1·2 +1·0 +0·23 +41**Ormskirk.—**

Population, 7,646.

Mean of 5 years—

1922–1926..... 18·2 14·4 0·84 67

Year—

1926 17·2 14·1 0·65 90

1927 16·4 12·4 0·52 55

*Increase or decrease
in 1927 on—**5 years' average,*

1922–1926..... –1·8 –2·0 –0·32 –12

Previous year ... –0·8 –1·7 –0·13 –35**Orrell.—**

Population, 7,190.

Mean of 5 years—

1922–1926..... 18·9 11·9 0·70 95

Year—

1926 18·5 12·5 0·84 98

1927 15·7 10·8 0·41 97

*Increase or decrease
in 1927 on—**5 years' average,*

1922–1926..... –3·2 –1·1 –0·29 +2

Previous year ... –2·8 –1·7 –0·43 –1

PER 1,000 OF POPULATION.
 Birth-rate. Death-rate from Rate of
 Tuberculosis of Deaths
 Respiratory under 1
 System. year to
 1,000
 Births.

Oswaldtwistle.—

Population, 14,910.

Mean of 5 years—

1922–1926..... 16·4 12·9 0·45 80

Year—

1926 14·4 11·6 0·66 92

1927 15·2 13·0 0·46 74

*Increase or decrease
in 1927 on—**5 years' average,*

1922–1926..... –1·2 +0·1 +0·01 –6

Previous year ... +0·8 +1·4 –0·20 –18**Padiham.—**

Population, 12,140.

Mean of 5 years—

1922–1926..... 15·8 14·0 0·74 100

Year—

1926 14·1 13·7 0·57 127

1927 14·4 16·1 0·82 74

*Increase or decrease
in 1927 on—**5 years' average,*

1922–1926..... –1·4 +2·1 +0·08 –26

Previous year ... +0·3 +2·4 +0·25 –53**Poulton-le-Fylde.—**

Population, 3,007.

Mean of 5 years—

1922–1926..... 18·1 14·9 0·21 63

Year—

1926 13·4 13·8 nil. 75

1927 16·2 15·6 0·33 81

*Increase or decrease
in 1927 on—**5 years' average,*

1922–1926..... –1·9 +0·7 +0·12 +18

Previous year ... +2·8 +1·8 +0·33 +6**Preesall.—**

Population, 1,948.

Mean of 5 years—

1922–1926..... 17·3 13·7 1·00 97

Year—

1926 18·0 12·1 1·05 29

1927 11·2 15·9 nil. nil.

*Increase or decrease
in 1927 on—**5 years' average,*

1922–1926..... –6·1 +2·2 –1·00 –97

Previous year ... –6·8 +3·8 –1·05 –29

PER 1,000 OF POPULATION.

Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	Rate of Deaths under 1 year to 1,000 Births.
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Prescot.—

Population, 10,190.

Mean of 5 years—

1922-1926.....	19.9	11.7	0.93	93
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Year—

1926	18.2	11.6	1.37	102
1927	16.9	10.5	0.49	104

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926.....	-3.0	-1.2	-0.44	+11
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Previous year ...	-1.3	-1.1	-0.88	+2
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Prestwich.—

Population, 21,120.

Mean of 5 years—

1922-1926.....	12.8	9.0	0.57	47
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Year—

1926	11.9	8.7	0.38	48
1927	12.7	10.9	0.75	52

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926.....	-0.1	+1.9	+0.18	+5
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Previous year ...	+0.8	+2.2	+0.37	+4
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Radcliffe.—

Population, 25,340.

Mean of 5 years—

1922-1926.....	15.6	13.6	0.59	79
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Year—

1926	14.4	11.9	0.55	68
1927	12.6	12.6	0.47	68

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926.....	-3.0	-1.0	-0.12	-11
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Previous year ...	-1.8	+0.7	-0.08	nil.
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Rainford.—

Population, 3,864.

Mean of 5 years—

1922-1926.....	19.3	11.5	0.21	102
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Year—

1926	16.8	13.9	nil.	171
1927	15.7	8.0	nil.	49

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926.....	-3.6	-3.5	-0.21	-53
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Previous year ...	-1.1	-5.9	nil.	-122
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PER 1,000 OF POPULATION.

Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	Rate of Deaths under 1 year to 1,000 Births.
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Ramsbottom.—

Population, 14,900.

Mean of 5 years—

1922-1926.....	14.2	13.1	0.59	77
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Year—

1926	11.7	11.2	0.39	67
1927	13.6	14.7	0.73	73

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926.....	-0.6	+1.6	+0.14	-4
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Previous year ...	+1.9	+3.5	+0.34	+6
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Rawtenstall (Borough).—

Population, 28,920.

Mean of 5 years—

1922-1926.....	16.0	14.0	0.68	88
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Year—

1926	14.6	13.6	0.72	85
1927	14.2	13.0	0.48	58

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926.....	-1.8	-1.0	-0.20	-30
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Previous year ...	-0.4	-0.6	-0.24	-27
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Rishton.—

Population, 7,014.

Mean of 5 years—

1922-1926.....	14.0	13.5	0.53	92
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Year—

1926	12.4	13.7	0.72	69
1927	13.1	13.1	0.28	54

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926.....	-0.9	-0.4	-0.25	-38
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Previous year ...	+0.7	-0.6	-0.44	-15
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Royton.—

Population, 17,020.

Mean of 5 years—

1922-1926.....	16.0	13.9	0.63	102
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Year—

1926	15.3	14.1	0.76	99
1927	15.3	11.8	0.29	99

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926.....	-0.7	-2.1	-0.34	-3
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Previous year ...	nil.	-2.3	-0.47	nil.
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	PER 1,000 OF POPULATION.			Rate of Deaths from under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
Skelmersdale.—				
Population, 6,936.				
<i>Mean of 5 years—</i>				
<i>1922-1926.....</i>	18·4	11·5	0·47	83
<i>Year—</i>				
1926	17·5	13·2	0·57	114
1927	15·7	11·1	0·86	73

Increase or decrease in 1927 on—

5 years' average,

1922-1926.....	-2·7	-0·4	+0·39	-10
Previous year ...	-1·8	-2·1	+0·29	-41

Standish-with-Langtree.—

Population, 7,677.				
<i>Mean of 5 years—</i>				
1922-1926.....	17·9	12·3	0·57	108
<i>Year—</i>				
1926	13·5	11·4	0·64	123
1927	13·8	12·1	0·13	150

Increase or decrease in 1927 on—

5 years' average,

1922-1926.....	-4·1	-0·2	-0·44	+42
Previous year ...	+0·3	+0·7	-0·51	+27

Stretford.—

Population, 51,540.				
<i>Mean of 5 years—</i>				
1922-1926.....	15·4	11·7	0·75	66
<i>Year—</i>				
1926	14·4	11·1	0·67	55
1927	14·4	11·5	0·65	68

Increase or decrease in 1927 on—

5 years' average,

1922-1926.....	-1·0	-0·2	-0·10	+2
Previous year ...	nil.	+0·4	-0·02	+13

Swinton and Pendlebury.—

Population, 34,750.				
<i>Mean of 5 years—</i>				
1922-1926.....	16·2	11·3	0·71	91
<i>Year—</i>				
1926	14·7	10·7	0·73	84
1927	12·2	10·0	0·69	68

Increase or decrease in 1927 on—

5 years' average,

1922-1926.....	-4·0	-1·3	-0·02	-23
Previous year ...	-2·5	-0·7	-0·04	-16

Thornton Cleveleys.—

Population, 8,053.				
<i>Mean of 5 years—</i>				
1922-1926.....	16·9	12·3	0·57	53
<i>Year—</i>				
1926	17·5	12·0	0·41	46
1927	12·0	12·4	0·74	51

Increase or decrease in 1927 on—

5 years' average,

1922-1926.....	-4·9	+0·1	+0·17	-2
Previous year ...	-5·5	+0·4	+0·33	+5

Tottington.—

Population, 6,529.				
<i>Mean of 5 years—</i>				
1922-1926.....	12·9	13·3	0·63	81
<i>Year—</i>				
1926	10·9	13·3	0·58	80
1927	11·9	13·9	0·61	123

Increase or decrease in 1927 on—

5 years' average,

1922-1926.....	-1·0	+0·6	-0·02	+47
Previous year ...	+1·0	+0·6	+0·03	+48

Trawden.—

Population, 2,742.				
<i>Mean of 5 years—</i>				
1922-1926.....	13·3	13·7	0·50	114
<i>Year—</i>				
1926	13·2	11·0	nil.	138
1927	12·7	12·7	nil.	142

Increase or decrease in 1927 on—

5 years' average,

1922-1926.....	-0·6	-1·0	-0·50	+28
Previous year ...	-0·5	+1·7	nil.	+4

Turton.—

Population, 12,250.				
<i>Mean of 5 years—</i>				
1922-1926.....	13·9	12·1	0·48	52
<i>Year—</i>				
1926	12·4	11·5	0·16	46
1927	12·0	14·3	0·73	67

Increase or decrease in 1927 on—

5 years' average,

1922-1926.....	-1·9	+2·2	+0·25	+15
Previous year ...	-0·4	+2·8	+0·57	+21

PER 1,000 OF POPULATION.
 Birth-rate. Death-rate. Death-rate from Tuberculosis of Respiratory System. Rate of Deaths under 1 year to 1,000 Births.

Tyldesley-with-Shakerley.—

Population, 15,470.

Mean of 5 years—

1922-1926.....	19.2	12.3	0.73	87
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Year—

1926	19.9	12.8	1.03	96
1927	16.6	13.5	0.84	70

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926.....	-2.6	+1.2	+0.11	-17
<i>Previous year ...</i>	-3.3	+0.7	-0.19	-26

Ulverston.—

Population, 9,406.

Mean of 5 years—

1922-1926.....	16.2	13.1	0.72	71
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Year—

1926	14.8	12.3	0.63	85
1927	14.7	16.3	0.21	57

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926.....	-1.5	+3.2	-0.51	-14
<i>Previous year ...</i>	-0.1	+4.0	-0.42	-28

Upholland.—

Population, 5,599.

Mean of 5 years—

1922-1926.....	19.9	11.9	0.42	71
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Year—

1926	18.5	12.2	0.18	98
1927	17.5	11.7	0.17	81

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926.....	-2.4	-0.2	-0.25	+10
<i>Previous year ...</i>	-1.0	-0.5	-0.01	-17

Urmston.—

Population, 8,201.

Mean of 5 years—

1922-1926.....	15.4	11.0	0.52	56
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Year—

1926	14.1	12.4	0.48	76
1927	13.2	11.3	0.85	45

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926.....	-2.2	+0.3	+0.33	-11
<i>Previous year ...</i>	-0.9	-1.1	+0.37	-31

PER 1,000 OF POPULATION.
 Birth-rate. Death-rate. Death-rate from Tuberculosis of Respiratory System. Rate of Deaths under 1 year to 1,000 Births.

Walton-le-Dale.—

Population, 12,440.

Mean of 5 years—

1922-1926.....	16.4	11.6	0.84	58
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Year—

1926	15.7	9.6	0.81	46
1927	15.2	13.2	0.56	57

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926.....	-1.2	+1.6	-0.28	-1
<i>Previous year ...</i>	-0.5	+3.6	-0.25	+11

Wardle.—

Population, 4,639.

Mean of 5 years—

1922-1926.....	15.6	14.7	0.47	93
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Year—

1926	17.0	15.2	0.86	101
1927	12.9	16.3	0.64	100

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926.....	-2.7	+1.6	+0.17	+7
<i>Previous year ...</i>	-4.1	+1.1	-0.22	-1

Waterloo-with-Seaforth.—

Population—

For Birth-rate, 31,520.

For Death-rate, 31,280.

Mean of 5 years—

1922-1926.....	18.4	12.1	1.00	83
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Year—

1926	17.8	13.2	0.91	108
1927	18.0	11.2	0.79	50

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926.....	-0.4	-0.9	-0.21	-33
<i>Previous year ...</i>	+0.2	-2.0	-0.12	-58

Westhoughton.—

Population, 17,670.

Mean of 5 years—

1922-1926.....	17.6	12.1	0.38	94
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Year—

1926	15.3	10.5	0.28	89
1927	14.7	11.9	0.39	96

*Increase or decrease in 1927 on—**5 years' average,*

1922-1926.....	-2.9	-0.2	+0.01	+2
<i>Previous year ...</i>	-0.6	+1.4	+0.11	+7

PER 1,000 OF POPULATION. Rate of
Birth- Death- Tuberculosis of Deaths
rate. rate. Respiratory under 1
System. Births;

Whitefield.—

Population, 7,588.				
Mean of 5 years—				
1922–1926.....	15·8	12·4	0·72	82
Year—				
1926	16·7	10·8	0·13	104
1927	13·1	13·7	0·65	100
Increase or decrease in 1927 on—				
5 years' average,				
1922–1926.....	–2·7	+1·3	–0·07	+18
Previous year ...	–3·6	+2·9	+0·52	–4

Whitworth.—

Population, 8,555.				
Mean of 5 years—				
1922–1926.....	15·2	15·3	0·76	89
Year—				
1926	14·2	14·6	0·23	65
1927	13·4	17·4	1·28	95
Increase or decrease in 1927 on—				
5 years' average,				
1922–1926.....	–1·8	+2·1	+0·52	+6
Previous year ...	–0·8	+2·8	+1·05	+30

PER 1,000 OF POPULATION. Rate of
Birth- Death- Tuberculosis of Deaths
rate. rate. Respiratory under 1
System. Births.

Widnes (Borough).—

Population, 42,610.				
Mean of 5 years—				
1922–1926.....	23·6	12·6	0·92	85
Year—				
1926	21·4	11·7	0·80	87
1927	21·7	12·1	0·91	66
Increase or decrease in 1927 on—				
5 years' average,				
1922–1926.....	–1·9	–0·5	–0·01	–19
Previous year ...	+0·3	+0·4	+0·11	–21

Withnell.—

Population, 3,510.				
Mean of 5 years—				
1922–1926.....	13·7	9·9	0·56	82
Year—				
1926	11·9	8·2	0·28	71
1927	12·5	10·8	nil.	nil.
Increase or decrease in 1927 on—				
5 years' average,				
1922–1926.....	–1·2	+0·9	–0·56	–82
Previous year ...	+0·6	+2·6	–0·28	–71

PER 1,000 OF POPULATION. Rate of
Birth- Death- Tuberculosis of Deaths
rate. rate. Respiratory under 1
System. Births.

Worsley.—

Population, 14,610.				
Mean of 5 years—				
1922–1926.....	14·1	12·1	0·50	80
Year—				
1926	12·6	12·7	0·68	129
1927	10·5	13·6	0·27	64
Increase or decrease in 1927 on—				
5 years' average,				
1922–1926.....	–3·6	+1·5	–0·23	–16
Previous year ...	–2·1	+0·9	–0·41	–65

RURAL DISTRICTS.

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
Barton-upon-Irwell.—				
Population, 11,920.				
<i>Mean of 5 years—</i>				
<i>1922–1926.....</i>	15·1	10·7	0·83	52
Year—				
1926	18·1	9·2	0·62	29
1927	16·8	10·8	0·75	49

Increase or decrease in 1927 on—

5 years' average,

1922–1926.....	+1·7	+0·1	–0·08	–3
Previous year ...	–1·3	+1·6	+0·13	+20

Blackburn.—

Population, 10,760.				
<i>Mean of 5 years—</i>				
1922–1926.....	14·4	10·9	0·58	71
<i>Year—</i>				
1926	13·2	9·0	0·47	63
1927	11·5	12·2	0·74	88

Increase or decrease in 1927 on—

5 years' average,

1922–1926.....	–2·9	+1·3	+0·16	+17
Previous year ...	–1·7	+3·2	+0·27	+25

Burnley.—

Population, 19,270.				
<i>Mean of 5 years—</i>				
1922–1926.....	14·0	12·5	0·51	77
<i>Year—</i>				
1926	13·6	12·7	0·46	98
1927	11·8	11·8	0·36	48

Increase or decrease in 1927 on—

5 years' average,

1922–1926.....	–2·2	–0·7	–0·15	–29
Previous year ...	–1·8	–0·9	–0·10	–50

Bury.—

Population, 9,494.				
<i>Mean of 5 years—</i>				
1922–1926.....	14·5	12·0	0·74	83
<i>Year—</i>				
1926	13·6	13·3	0·52	99
1927	14·5	15·7	0·42	79

Increase or decrease in 1927 on—

5 years' average,

1922–1926.....	nil.	+3·7	–0·32	–4
Previous year ...	+0·9	+2·4	–0·10	–20

	PER 1,000 OF POPULATION.			Rate of Deaths
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	year to 1,000 Births.
Chorley.—				
Population, 22,240.				
<i>Mean of 5 years—</i>				
1922–1926.....	17·1	12·0	0·48	77
<i>Year—</i>				
1926	15·3	10·3	0·53	64
1927	15·3	13·4	0·26	70

Increase or decrease in 1927 on—

5 years' average,

1922–1926.....	–1·8	+1·4	–0·22	–7
Previous year ...	nil.	+3·1	–0·27	+6

Clitheroe.—

Population, 8,922.				
<i>Mean of 5 years—</i>				
1922–1926.....	13·7	11·4	0·61	55
<i>Year—</i>				
1926	11·9	9·2	0·22	74
1927	8·2	9·4	0·56	81

Increase or decrease in 1927 on—

5 years' average,

1922–1926.....	–5·5	–2·0	–0·05	+26
Previous year ...	–3·7	+0·2	+0·34	+7

Fylde.—

Population, 15,280.				
<i>Mean of 5 years—</i>				
1922–1926.....	16·8	11·6	0·40	76
<i>Year—</i>				
1926	17·2	9·7	0·27	44
1927	14·2	12·1	0·32	64

Increase or decrease in 1927 on—

5 years' average,

1922–1926.....	–2·6	+0·5	–0·08	–12
Previous year ...	–3·0	+2·4	+0·05	+20

Garstang.—

Population, 11,230.				
<i>Mean of 5 years—</i>				
1922–1926.....	18·4	12·1	0·35	68
<i>Year—</i>				
1926	20·4	10·9	0·35	64
1927	15·3	13·3	0·53	69

Increase or decrease in 1927 on—

5 years' average,

1922–1926.....	–3·1	+1·2	+0·18	+1
Previous year ...	–5·1	+2·4	+0·18	+5

	PER 1,000 OF POPULATION.			Rate of Deaths
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	under 1 year to 1,000 Births.
Lancaster.—				
Population, 9,283.				
<i>Mean of 5 years—</i>				
1922–1926.....	17·8	13·1	0·53	55
<i>Year—</i>				
1926	18·8	9·9	0·53	41
1927	17·8	13·1	0·53	60
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	nil.	nil.	nil.	+5
<i>Previous year ...</i>	–1·0	+3·2	nil.	+19

Leigh.—				
Population, 11,650.				
<i>Mean of 5 years—</i>				
1922–1926.....	18·2	11·0	0·49	77
<i>Year—</i>				
1926	16·4	10·0	0·76	88
1927	14·8	11·2	0·94	63
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	–3·4	+0·2	+0·45	–14
Previous year ...	–1·6	+1·2	+0·18	–25

Limehurst.—				
Population—				
For Birth-rate, 9,043.				
For Death-rate, 8,843.				
<i>Mean of 5 years—</i>				
1922–1926.....	17·0	12·1	0·79	70
<i>Year—</i>				
1926	14·8	12·3	0·78	66
1927	14·4	12·3	0·45	76
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	–2·6	+0·2	–0·34	+6
Previous year ...	–0·4	nil.	–0·33	+10

Lunesdale.—				
Population, 6,212.				
<i>Mean of 5 years—</i>				
1922–1926.....	15·8	12·0	0·64	64
<i>Year—</i>				
1926	16·2	12·0	0·79	58
1927	17·5	14·3	0·48	36
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	+1·7	+2·3	–0·16	–28
Previous year ...	+1·3	+2·3	–0·31	–22

	PER 1,000 OF POPULATION.			Rate of Deaths
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	under 1 year to 1,000 Births.
Preston.—				
Population, 26,970.				
<i>Mean of 5 years—</i>				
<i>1922–1926.....</i>	14·3	10·4	0·52	71
<i>Year—</i>				
1926	14·0	9·7	0·30	82
1927	14·3	11·4	0·22	80
<i>Increase or decrease</i>				
<i>in 1927 on—</i>				
<i>5 years' average,</i>				
<i>1922–1926.....</i>	nil.	+1·0	−0·30	+9
<i>Previous year ...</i>	+0·3	+1·7	−0·08	−2

Sefton.—				
Population, 4,602.				
<i>Mean of 5 years—</i>				
1922–1926.....	14·2	11·7	0·90	91
<i>Year—</i>				
1926	16·1	12·1	0·67	55
1927	19·9	12·3	0·86	65
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	+5·7	+0·6	–0·04	–26
Previous year ...	+3·8	+0·2	+0·19	+10

Ulverston.—				
Population, 16,650.				
<i>Mean of 5 years—</i>				
1922–1926.....	16·0	12·5	0·45	56
<i>Year—</i>				
1926	13·6	13·1	0·59	82
1927	15·5	14·3	0·90	65
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	–0·5	+1·8	+0·45	+9
Previous year ...	+1·9	+1·2	+0·31	–17

Warrington.—				
Population, 13,520.				
<i>Mean of 5 years—</i>				
1922–1926.....	18·0	10·9	0·71	77
<i>Year—</i>				
1926	17·1	10·3	0·81	77
1927	15·4	11·0	0·51	62
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	–2·6	+0·1	–0·20	–15
Previous year ...	–1·7	+0·7	–0·30	–15

	PER 1,000 OF POPULATION.			Rate of Deaths
	Birth-rate.	Death-rate.	Tuberculosis of Respiratory System.	under 1 year to 1,000 Births.
West Lancashire.—				
Population, 22,890.				
<i>Mean of 5 years—</i>				
1922–1926.....	15·4	11·3	0·52	61
<i>Year—</i>				
1926	13·9	10·5	0·44	70
1927	14·0	11·4	0·43	49
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	–1·4	+0·1	–0·09	–12
<i>Previous year ...</i>	+0·1	+0·9	–0·01	–21

	PER 1,000 OF POPULATION.			Rate of Deaths
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	year to 1,000 Births.
Whiston.—				
Population, 22,450.				
<i>Mean of 5 years—</i>				
1922–1926.....	16·3	9·8	0·59	67
<i>Year—</i>				
1926	15·2	9·1	0·46	85
1927	14·3	8·4	0·26	96
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	–2·0	–1·4	–0·33	+29
<i>Previous year ...</i>	–0·9	–0·7	–0·20	+11

	PER 1,000 OF POPULATION.			Rate of Deaths
	Birth-rate.	Death-rate.	Tuberculosis of Respiratory System.	year to 1,000 Births.
Wigan.—				
Population, 6,314.				
<i>Mean of 5 years—</i>				
1922–1926.....	15·9	11·9	0·37	109
<i>Year—</i>				
1926	15·5	12·3	0·31	102
1927	13·1	11·5	0·47	96
<i>Increase or decrease in 1927 on—</i>				
<i>5 years' average,</i>				
1922–1926.....	−2·8	−0·4	+0·10	−13
<i>Previous year ...</i>	−2·4	−0·8	+0·16	−6

ADMINISTRATIVE COUNTY.

PER 1,000 OF POPULATION. Rate of
Birth- Death- Tuberculosis of Deaths
rate. rate. Respiratory under 1
 System. year to
 1,000
 Births.

Aggregate of County
Urban Districts.—

Population—				
For Birth-rate, 1,542,800.				
For Death-rate, 1,541,800.				
Mean of 5 years—				
1922-1926.....	16.79	12.70	0.71	83
Year—				
1926	15.66	12.21	0.67	82
1927	14.59	12.86	0.63	74
Increase or decrease				
in 1927 on—				
5 years' average,				
1922-1926.....	-2.20	+0.16	-0.08	-9
Previous year ...	-1.07	+0.65	-0.04	-8

PER 1,000 OF POPULATION. Rate of
Birth- Death- Tuberculosis of Deaths
rate. rate. Respiratory under 1
 System. year to
 1,000
 Births.

Aggregate of County
Rural Districts.—

Population—				
For Birth-rate, 258,700.				
For Death-rate, 258,500.				
Mean of 5 years—				
1922-1926.....	16.01	11.55	0.55	70
Year—				
1926	15.29	10.69	0.49	71
1927	14.48	11.94	0.47	68
Increase or decrease				
in 1927 on—				
5 years' average,				
1922-1926.....	-1.53	+0.39	-0.08	-2
Previous year ...	-0.81	+1.25	-0.02	-3

PER 1,000 OF POPULATION. Rate of
Birth- Death- Tuberculosis of Deaths
rate. rate. Respiratory under 1
 System. year to
 1,000
 Births.

Administrative County.—

Population—				
For Birth-rate, 1,801,500.				
For Death-rate, 1,800,300.				
Mean of 5 years—				
1922-1926.....	16.68	12.54	0.69	81
Year—				
1926	15.61	11.99	0.64	80
1927	14.57	12.72	0.61	73
Increase or decrease				
in 1927 on—				
5 years' average,				
1922-1926.....	-2.11	+0.18	-0.08	-8
Previous year ...	-1.04	+0.73	-0.03	-7

*EXTRACT FROM THE METEOROLOGICAL REPORT

BY THE

Rev. E. D. O'CONNOR, S.J., M.A., F.R.A.S.,

OF STONYHURST COLLEGE OBSERVATORY.

SUMMARY OF OBSERVATIONS FOR 1927.

Result of Observations taken during the Year.										Mean for the last 80 years.
READINGS OF BAROMETER IN INCHES.										
Mean of the year	...	...	...	...	...	...	...	...	29.448	29.493
Highest Monthly Mean (May)	...	...	...	...	...	...	...	...	29.630	29.742
Lowest " (March)	...	...	...	...	...	...	...	...	29.242	29.224
Highest Reading (December 28th)	...	...	...	...	...	...	...	...	30.295	30.292
Lowest " (December 22nd)	...	...	...	...	...	...	...	...	28.175	28.207
Range	...	...	...	...	...	...	...	...	2.120	2.085
THERMOMETER, FAHRENHEIT.										
Highest Monthly Mean Temperature (July)	...	...	...	...	...	...	...	...	59.2	58.6
Lowest " (January)	...	...	...	...	...	...	...	...	35.4	35.8
Highest Reading of a Max. Therm. (July 10th)	...	...	...	...	...	...	...	...	78.0	81.3
Lowest Reading of a Min. Therm. (December 20th)	...	...	...	...	...	...	...	...	20.0	16.5
Range of Thermometer Readings	...	...	...	...	...	...	...	...	58.0	64.8
Mean of Highest Daily Readings	...	...	...	...	...	...	...	...	52.5	54.4
Mean of Lowest Daily Readings	...	...	...	...	...	...	...	...	41.8	41.1
Mean Daily Range	...	...	...	...	...	...	...	...	10.7	13.3
Deduced Mean Temperature (from mean of Max. and Min.)	...	...	...	...	...	...	...	...	46.1	46.7
Mean Temperature from Dry Bulb	...	...	...	...	...	...	...	...	47.5	47.0
Adopted Mean Temperature of the Year	...	...	...	...	...	...	...	...	46.8	46.9
Mean Temperature of Evaporation	...	...	...	...	...	...	...	...	45.1	44.6
Mean Temperature of Dew Point	...	...	...	...	...	...	...	...	42.4	42.2
Mean elastic force of Vapour	...	...	...	...	...	...	...	inches	0.280	0.275
Mean weight of Vapour in a cubic foot of air	...	...	...	...	...	...	...	grains	3.2	3.2
Mean additional weight required for saturation	...	...	...	...	...	...	...	grains	0.7	0.7
Mean degree of Humidity (saturation 100)	...	...	...	...	...	...	...	...	83	84
Mean weight of cubic foot of air	...	...	...	...	...	...	...	grains	537.7	539.1
Mean amount of Cloud (0—10)	...	...	...	...	...	...	...	...	7.5	7.3
Total fall of Rain	...	...	...	...	...	...	...	inches	51.950	47.340
Greatest Monthly Rainfall (September)	...	...	...	...	...	...	...	"	9.012	7.565
Least " (December)	...	...	...	...	...	...	...	"	1.220	1.264
Greatest Rainfall in one day (September 20th)	...	...	...	...	...	...	...	"	2.240	1.653
No. of days per Month on which .005 inch or more rain fell	...	...	...	...	...	...	...	...	18.5	17.2

SUMMARY OF WIND.

Prevailing direction	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean for the last 60 years.
No. of days for each	20	52	36	15	27	30	120	41	
Mean Velocity in miles per hour	7.1	6.5	7.8	7.9	10.1	11.3	10.0	9.8	
Total No. of miles for each direction	3393	8082	6756	2850	6513	8161	28769	9623	
Total No. of miles registered	...	...	...	...	...	81319	...	...
Greatest Monthly Total (January)	...	...	...	...	...	9483	...	...	85085.3
Least " (February)	...	...	...	...	...	4121	...	...	9923.2
Greatest hourly velocity (January 26th)	...	...	...	...	...	52	...	...	4929.6
Prevailing Direction of Wind	...	...	...	...	...	W	...	...	50.3
									W

*Introduced by kind permission.